Transfer Services of Oregon, LLC

March 1, 2011

Mr. Bruce Philbrick Metro 600 N.E. Grand Avenue Portland, OR 97232

RE: MSS Annual Operating Report

Mr. Philbrick,

Enclosed is the Annual Operating Report summarizing 2010 operations at the Metro South Transfer Station. Also included is a Summary and applicable data for the 1<sup>st</sup> Quarter operations of the Metro Central Station as requested.

Please contact me should you have questions on the enclosed data or require any additional information.

Sincerely,

Matthew L. Cofer Operations Supervisor Allied Waste Transfer Services of Oregon, LLC



March 1, 2011

Metro 600 N.E. Grand Avenue Portland, OR 97232

#### RE: MSS Annual Operating Report Summary

Metro,

This summary report contains data on inbound and outbound volumes for waste transfer and waste recovery operations, cost of utility services, storm and waste water sampling records, sustainable practices, pest management and performance measure tracking. Significant events and or changes in operations that occurred in 2010 are described in pertinent sections within this report. Copies are attached of all supporting data for the station operations. Note: Data for MCS is included in Appendix H of this report through 31 March 2010, the end date of the contract between Metro and Allied/Republic for operation of that station.

#### Waste Flow:

MSS realized a slight increase in inbound MSW tons at .6% in 2010, but also saw Yard Debris fall by 18%. The station did manage a slight gain of .3%, or 800 tons in total volume for 2010. Table 1, Appendix A (09-10 Station Tonnage Comparison) provides data on total volumes for both stations (MSS/MCS), both years.

Metro South Station continues to sustain operations in maximizing outbound transport trailer weights. MSS loaded 6309 transport trailers with 215,476 tons of waste, averaging 34.15 tons each. Combined, the average load per trailer travelling up the Columbia River Gorge was 34.09 tons (Table 2, App A). This is a significant gain from 2009 as the average trailer weight was recorded at 30.63 tons for 7003 loads. It must be noted however, that base trailer weight did increase from 29 to 33 tons in 2010.

Dry waste volumes at MSS decreased significantly for the third consecutive year. 2010 received a total of 89,667 tons of dry waste, 5521 less than the prior year. Once averaged out, that figure translates to roughly 480 tons less per month of inbound dry received at MSS from 2009 (Table 3, App A). This number most likely can be attributed to economic factors such as the continued decline in new home construction and a decrease in industrial tons as a whole.

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#### **Recovery Operations:**

MSS exceeded the recovery goal of 15% per month, every month for the year 2010 (Table 1 App B). The range of recovery rates was 15.9% to 20.42% with an annual average of 17.91%. A year over year comparison highlights a 668 ton net gain in 2010 from 2009 (Table 2, App B) and a recovery percentage increase of 1.89%. These figures more than compensate for the lagging inbound dry waste volumes at Metro South and demonstrate Allied Waste's continued commitment to maximize recovery efforts year over year.

Physical recovery operations and techniques at MSS did not change in 2010, though a Recycle Coordinator was appointed and given operational control of the sort crew and equipment operators assigned to recovery operations. MSS uses a combination of a mechanical sort line in Bay 3 for industrial loads and floor sorting in Bay 2 for the self-haul material. Operations experienced very few disruptions to recovery efforts due to mechanical breakdowns, this is attributed to renewed emphasis on preventive maintenance, checks and services by both operators and shop personnel in 2010.

Approximately 55% of all material recovered at MSS remains waste wood. This figure is down almost three percentage points from 2009, which corresponds to a drop in volume of 470 tons by year's end 2010. Ferrous and non-ferrous metal accounted for 19.8% combined and rubble came in at 4.5% of total recovered material to round out the top three commodities in 2010. The largest decrease percentage wise was cardboard, down 3.35% and the largest gain was seen in rubble, up 2.24%.

MSS began random sampling and reporting of residuals from the recovery operations in 2009 as a part of the Enhanced Dry Waste Recovery Program (EDWRP) and continued to do so in 2010. The reported results at MSS in 2009 were 2.8% in Q1, 3.0% in Q2, 3.9% in Q3 and 4.5% in Q4. Results in 2010 as follows: Q1 – 3.4%, Q2 – 8.4%, Q3 – 5.6%, Q4 - 4% (Section 1, App G). For the second consecutive year, MSS is well below the established 15% benchmark required by Metro standards.

After struggling in 2009, commodity prices in 2010 held steady the first half of the year and began to experience some gains, especially cardboard and metal, beginning in the Fall. Wood prices remained stagnant, but the market was not plagued as it was in 2009 with multiple, frequent mill closures. See Table 3, Appendix B for data on commodity revenue vs. cost.

#### **Other Operations:**

Storm water management practices continue to evolve, adapting to any and all environmental conditions and striving to meet the various pollutant thresholds established under the 1200Z permit requirements.

MSS encountered storm water challenges in 2010, much the same as 2009. As the facility developed over the years, the storm water infrastructure developed into 6 noncontiguous systems, all having their own outfalls leaving the site. Sampling in the Fall and Winter of 2010 identified Total Suspended Solids beyond the permissible thresholds at all Outfalls on this site (Exhibit 3-5, App D). The most problematic outfalls have been identified as; #1, which originates from the transfer trailer parking area and #4, which originates from the scale house area. Site operations have been modified to include numerous, extensive best management practices. This, coupled with the purchase and implementation of numerous slope guards and the training/education of site sanitation personnel has greatly contributed to the success of the Allied's Storm Water Control Plan. Perhaps no other factor contributed more to the end of the year effort to clean up the storm water than the addition of the sweeper truck. Once trained on its use and maintenance, operators were placed on a strict monitoring schedule to ensure the appropriate number of hours were spent sweeping the site. Operators were also given designated target areas in which SOPs were put in place to add increased awareness and ensure proper sweeping procedures were adhered to at all times. The end result of this cumulative effort resulted in all outfalls falling below the TSS benchmarks for Q1 2011.

It must be reiterated from last year's report that substantial engineering improvements and continued adaptations to the BMPs are needed to the storm water systems in order to meet current and future storm water discharge standards while conducting the transfer operations at Metro South Station.

Industrial Waste Water Management on site remains unchanged from the previous year. Reports are turned into the WES monthly and points of compliance are sampled Quarterly.

Pest management and mitigation are ongoing operations at both MSS. There are still three primary components to the system:

- Rodent control
- Pigeon control
- House keeping

AW contracts with EZ Pest at MSS for both rodent and pigeon control. No substantial increase in either of those pests has been reported by vector control. House keeping plays the largest role in rodent control around the facility. Operations routinely remove, discard, recycle or relocate items that have been stationary for long periods of time. Anything that sits undisturbed for long durations presents itself as a safe haven for rodents. By eliminating or frequently displacing stored items rodents have fewer nesting areas. Keeping the waste flow moving also plays a key role in rodent control for the same reasons as above. AW strives to remove as much material from the sites as we receive on daily basis. The goal is to push or process at or near the same rate as receiving.

AW is committed to promoting sustainability (Appendix E) and continues operations and purchasing practices to lessen the footprint of MSS on the community and environment.

Please reference the 2010 Sustainability Report, Appendix C for details on our continued efforts to reduce, reuse and recycle.

As always, in 2010 Allied / Republic placed safety at the "Top of the Star", our highest priority for employees and customers alike. At MSS, we have instilled another motto: "Everybody is a Safety". Employees who witness an unsafe act by coworkers, customers, staff or supervisors are encouraged to disengage from whatever task at hand and put a stop to the dangerous activity. Furthermore, employees have their own elected Safety Committee in which they may voice concerns on the subject (safety) with their peers rather than directly with Supervisory personnel. This concern is then passed from the Safety Committee to management with a certain degree of anonymity in an effort to increase employee comfort in reporting safety violations.

To conclude, AW will continue to find ways to improve on both transfer and recovery operations, while sustaining the improvements made in the past. AW continues to endeavor to meet the daily challenges in the transfer operations and maintenance of Metro South Station while continuing to look forward, exploring all avenues of improvement in safety, sustainability, customer service, recovery and disposal.

For further information regarding this report, please contact the undersigned.

Sincerely,

Matthew L. Cofer Operations Supervisor Allied Waste Transfer Services of Oregon, LLC. Appendices:

- A. Waste Flow
  - a. Table 1 09-10 Station Tonnage Comparison
  - b. Table 2 MSS Densified Tons to Arlington Landfill
  - c. Table 3 09-10 Year over Year Comparison
- B. Recovery Operations
  - a. Table 1 2010 Commodities Shipped
  - b. Table 2 2009 Commodities Shipped
  - c. Table 3 2010 Commodity Revenue vs. Cost
- C. Storm Water Analytical Reports
  - a. Exhibit 1 2/26/2010
  - b. Exhibit 2 3/29/2010
  - c. Exhibit 3 11/6/2010
  - d. Exhibit 4 11/22/2010
  - e. Exhibit 5 12/9/2010
- D. Waste Water Discharge Reports Q1-Q4
- E. 2010 Sustainability Report
- F. 2010 Utility Tracking
- G. 2010 Performance Measure Tracking Graphs and Charts
  - a. Section 1 Recovery Operations
  - b. Section 2 Loading Operations
  - c. Section 3 Customer Service
  - d. Section 4 Safety
- H. Q1 MCS Summary Information

## <u>Appendix A</u>

Table 1 – 09-10 Station Tonnage Comparison

Table 2 - MSS Densified Tons to Arlington

Table 3 – 09-10 Year Over Year Comparison

# 09-10 Station Tonnage Comparison

			MCS		1.1.1.1	MSS			nbined Statio	
		2009		% Growth	2009		% Growth	2009	the second se	% Growth
Jan	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22916.98	19943.72	-12.97%	21005.86	17456.56	-16.90%	43922.84	37400.28	-14.85%
_	ORG	1414.34	1685.51	19.17%	0.00	0.00		1414.34	1685.51	19.17%
	YD	547.62	144.43	-73.63%	274.90	149.65	-45.56%	822.52	294.08	-64.25%
Total Inbo	ound	24878.94	21773.66	-12.48%	21280.76	17606.21	-17.27%	46159.70	39379.87	-14.69%
Feb	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	18596.31	18739.93	0.77%	16794.32	16851.27	0.34%	35390.63	35591.20	0.57%
	ORG	1354.36	1589.78	17.38%	0.00	0.00	0.5470	1354.36	1589.78	17.38%
	YD	455.39			229.02		4 200/	684.41	413.25	-39.62%
Total Inbo		20406.06	194.27 20523.98	-57.34% 0.58%	17023.34	218.98 17070.25	-4.38% 0.28%	37429.40	37594.23	-39.027
	- Filler			0.30%			0.2070			0.447
Mar	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21114.61	20760.21	-1.68%	18861.38	19600.16	3.92%	39975.99	40360.37	0.96%
	ORG	1486.49	1835.92	23.51%	0.00	0.00		1486.49	1835.92	23.51%
	YD	450.33	250.93	-44.28%	250.68	226.66	-9.58%	701.01	477.59	-31.87%
Total Inbo	ound	23051.43	22847.06	-0.89%	19112.06	19826.82	3.74%	42163.49	42673.88	1.21%
Apr	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
ripi	MSW	22123.23	0.00	-100.00%	19971.73	19857.67	-0.57%	42094.96	19857.67	-52.83%
1	ORG	1614.71		-100.00%	0.00	0.00	-0.5776	1614.71	0.00	-100.00%
	YD	625.07	0.00				12 450/	939.94	273.47	-70.91%
Total Inbo			0.00	-100.00%	314.87	273.47	-13.15%			
Total mbc	-	24363.01	0.00	-100.00%	20286.60	20131.14	-0.77%	44649.61	20131.14	-54.91%
May	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22243.63	0.00	-100.00%	19671.55	19615.31	-0.29%	41915.18	19615.31	-53.20%
	ORG	1617.75	0.00		0.00	0.00		1617.75	0.00	-100.00%
	YD	630.83	0.00	-100.00%	377.84	273.88	-27.51%	1008.67	273.88	-72.85%
Total Inbo	ound	24492.21	0.00		20049.39	19889.19	-0.80%	44541.60	19889.19	-55.35%
Jun										
Jun	CCS	0.00	0.00	100 0001	0.00	0.00	0.100/	0.00	0.00	54 000
	MSW	22952.97	0.00		20912.92	21369.65	2.18%	43865.89	21369.65	-51.28%
	ORG	1696.65	0.00		0.00	0.00		1696.65	0.00	-100.00%
	YD	418.16	0.00		370.43	296.47	-19.97%	788.59	296.47	-62.41%
Total Inbo	ound	25067.78	0.00	-100.00%	21283.35	21666.12	1.80%	46351.13	21666.12	-53.26%
Jul	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22218.49	0.00	-100.00%	21685.88	21249.21	-2.01%	43904.37	21249.21	-51.60%
	ORG	1847.81	0.00		0.00	0.00		1847.81	0.00	-100.00%
	YD	333.67	0.00	-100.00%	342.61	299.35	-12.63%	676.28	299.35	-55.74%
Total Inbo		24399.97	0.00	-100.00%	22028.49	21548.56	-2.18%	46428.46	21548.56	-53.59%
				100.0070	1		2.1070			00.007
Aug	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21706.37		-100.00%	20556.35	21027.60	2.29%	42262.72	21027.60	-50.25%
	ORG	1736.84	0.00		0.00	0.00		1736.84	0.00	-100.00%
	YD	317.40	and the second se	-100.00%	316.90	266.74	-15.83%	634.30	266.74	-57.95%
Total Inbo	ound	23760.61	0.00	-100.00%	20873.25	21294.34	2.02%	44633.86	21294.34	-52.29%
Sep	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	22007.47		-100.00%	20524.74	20676.84	0.74%	42532.21	20676.84	-51.39%
	ORG	1790.75		-100.00%	0.00	0.00	0.1470	1790.75	0.00	-100.00%
	YD	282.21		-100.00%	266.80	215.44	-19.25%	549.01	215.44	-60.76%
Total Inbo		24080.43	Contraction of the local division of the loc	-100.00%	20791.54	20892.28	0.48%	44871.97	20892.28	-53.44%
				-100.00%			0.40%			-33.4470
Oct	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21799.28		-100.00%	19057.10	19594.14	2.82%	40856.38	19594.14	-52.04%
	ORG	1834.33		-100.00%	0.00	0.00		1834.33	0.00	-100.00%
	YD	259.47		-100.00%	217.31	192.04	-11.63%	476.78	192.04	-59.72%
Total Inbo	ound	23893.08	0.00	-100.00%	19274.41	19786.18	2.66%	43167.49	19786.18	-54.16%
Nov	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21879.61	and the second se	-100.00%	18279.12	18982.21	3.85%	40158.73	18982.21	-52.73%
	ORG	1712.71		-100.00%	and the second se		5.05%			-100.00%
	YD				0.00	0.00	24 700/	1712.71	0.00	
Total Inbo		312.81		-100.00%	241.60	157.71	-34.72%	554.41	157.71	-71.55%
		23905.13		-100.00%	18520.72	19139.92	3.34%	42425.85	19139.92	-54.89%
Dec	CCS	0.00	0.00		0.00	0.00		0.00	0.00	
	MSW	21749.78		-100.00%	18533.98	20962.07	13.10%	40283.76	20962.07	-47.96%
	ORG	1781.99		-100.00%	0.00	0.00		1781.99	0.00	-100.00%
	YD	162.73		-100.00%	114.14	159.02	39.32%	276.87	159.02	-42.57%
Total Inbo	ound	23694.50	0.00		18648.12	21121.09	13.26%	42342.62	21121.09	-50.12%
Annual	1	261308.73								
	MSW		59443.86	-77.25%	235854.93	237242.69	0.59%	497163.66	296686.55	-40.32%
Annual	ORG	19888.73	5111.21	-74.30%	0.00	0.00	4	19888.73	5111.21	-74.30%
Annual	YD	4795.69	589.63	-87.71%	3317.10	2729.41	-17.72%	8112.79	3319.04	-59.09%
Annual To		285993.15		-77.22%			0.33%	525165.18		-41.90%

# South Station MSW Densified and Transported to Arlington

# 2010

Month	# Loads	<b>Tons Densified</b>	Average Tons per Load	Base Tonnage	Bonus Tonnage
January*	456	15,350.38	33.66	13,224.00	2,126.38
February*	443	15,097.75	34.08	12,847.00	2,250.75
March*	535	18,305.53	34.22	15,515.00	2,790.53
April**	513	17,567.82	34.25	17,185.50	382.32
May**	513	17,580.68	34.27	17,185.50	395.18
June**	540	18,443.53	34.15	18,090.00	353.53
July**	587	20,078.47	34.21	19,664.50	413.97
August**	586	20,078.45	34.26	19,631.00	447.45
September**	571	19,557.23	34.25	19,128.50	428.73
October**	519	17,703.21	34.11	17,386.50	316.71
November**	485	16,571.36	34.17	16,247.50	323.86
December**	561	19142.27	34.12	18,793.50	348.77
Total	6309	215476.68	34.15	204898.50	10578.18

Note: \*Base tonnage is @ 29 tons per load: Jan - Mar 2010. \*\*Base tonnage is @ 33.5 tons per load: Apr - Dec 2010.

# Combined Station MSW Densified and Transported to Arlington

# 2010

Month	# Loads	<b>Tons Densified</b>	Average Tons per Load	Base Tonnage	Bonus Tonnage
January	1042	35,121.06	33.71	30,218.00	4,903.06
February	972	33,038.33	33.99	28,188.00	4,850.33
March	1141	38,848.34	34.05	33,089.00	5,759.34
April	513	17,567.82	34.25	17,185.50	382.32
May	513	17,580.68	34.27	17,185.50	395.18
June	540	18,443.53	34.15	18,090.00	353.53
July	587	20,078.47	34.21	19,664.50	413.97
August	586	20,078.45	34.26	19,631.00	447.45
September	571	19,557.23	34.25	19,128.50	428.73
October	519	17,703.21	34.11	17,386.50	316.71
November	485	16,571.36	34.17	16,247.50	323.86
December	561	19,142.27	34.12	18,793.50	348.77
Total	8030	273,730.75	34.09	254,807.50	18,923.25

MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2009	1,564.25	1,357.36	1,505.80	1,558.34	1,533.33	1,639.33	1,624.51	1,499.97	1,320.18	1,464.24	1,380.27	1,234.91	17,682.4
2010	1,283.93	1,349.75	1,547.50	1,504.23	1,640.09	1,674.44	1,647.57	1,586.31	1,526.13	1,483.26	1,304.53	1,215.03	17,762.7
	-280.32	-7.61	41.70	-54.11	106.76	35.11	23.06	86,34	205.95	19.02	-75.74	-19.88	80.2
Recovered From Dry Tons MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
2009	1,289.35	1,128.34	1,255,12	1,243.47	1,155,49	1,268,90	1,281.90	1,183.07	1,053.38	1,246.93	1,138.67	1,120.77	14,365.3
2010	1,134.28	1,130.77	1.320.84	1,230.76	1.366.21	1.377.97	1,348.22	1.319.57	1,310.69	1,291,22	1,146.82	1,056.01	15,033.3
	-155.07	2.43	65.72	-12.71	210.72	109.07	66.32	136.50	257.31	44.29	8.15	-64.76	667.9
und Dry Waste Tons				100							1101/	0.50	
MONTH 2009 2010	JAN 7,549.37 6,053.89	FEB 6,127.23 6,071.31	MAR 7,016.10 6,909.06	APR 7,719.94 6,907.49	MAY 7.864.68 6.973.67	JUN 8,418.75 7,873.35	JUL 9.104.63 8,397.70	AUG 8,546.59 8,296.98	SEP 8,283,59 8,074,90	OCT 7,363.91 7,230.34	NOV 6.047.22 5.614.81	DEC 5,625.94 5,521.31	
MONTH 2009	7,549.37	6,127.23	7,016.10	7,719.94	7,864.68	8,418.75	9,104.63	8,546.59	8,283.59	7,363.91	6.047.22	5,625.94	89,667.9 83,924.8
MONTH 2009 2010	7,549.37 6,053.89	6,127.23 6,071.31	7,016.10	7,719.94 6,907.49	7,864.68 6,973.67	8,418.75 7,873.35	9,104.63 8,397.70	8,546.59 8,296.98	8,283.59 8,074.90	7,363.91 7,230.34	6.047.22 5,614.81	5,625.94 5,521.31	89,667.9 83,924.8
MONTH 2009 2010 of Dry Waste	7,549.37 6,053.89 -1,495.48	6,127.23 6,071.31 -55.92	7,016.10 6,909.06 -107.04	7,719.94 6,907.49 -812.45	7,864.68 6,973.67 -891.01	8,418.75 7,873.35 -545.40	9,104.63 8,397.70 -706.93	8,546.59 8,296.98 249.61	8,283.59 8,074.90 -206.69	7,363.91 7,230.34 -133.57	6.047.22 5,614.81 -432.41	5,625.94 5,521.31 -104.63	89,667.9 83,924.8 -5,743.1 TOTAL
MONTH 2009 2010 of Dry Waste MONTH	7,549.37 6,053.89 -1,495.48 JAN	6,127.23 6,071.31 -55.92 FEB	7,018.10 6,909.06 -107.04 MAR	7,719.94 6,907.49 -812.45 APR	7,864,68 6,973,67 -891,01 MAY	8,418.75 7,873.35 -545.40 JUN	9,104.63 8,397.70 -706.93 JUL	8,546.59 8,296.98 -249.61 AUG	8.283.59 8.074.90 -208.69 SEP	7,363.91 7,230.34 -133.57 OCT	6,047.22 5,614.81 -432.41 NOV	5,625.94 5,521.31 -104.63 DEC	89,667.9 83,924.8 -5,743.1 TOTAL 16:02
MONTH 2009 2010 of Dry Waste MONTH 2009 2010	7,549.37 6,053.89 -1,495.48 JAN 17.08%	6,127.23 6,071.31 -55.92 FEB 18,42%	7,016.10 6,909.06 -107.04 MAR 17,89%	7,719.94 6,907.49 -812.45 APR 16.11%	7,864.68 6,973.67 -891.01 MAY 14.69%	8,418.75 7,873.35 -545.40 JUN 15.07%	9.104.63 8.397.70 -706.93 JUL 14.08%	8,546.59 8,296.98 -249.61 AUG 13.84%	8.283.59 8,074.90 -208.69 SEP 12.72%	7,363.91 7,230.34 -133.57 OCT 16.93%	6.047.22 5.614.81 -432.41 NOV 18.83%	5,625.94 5,521.31 -104.63 DEC 19.92%	89,667.9: 83,924.8 -5,743.1 TOTAL 16:029 17.919
MONTH 2009 2010 of Dry Waste MONTH 2009	7,549.37 6,053.89 -1,495.48 JAN 17.08% 18.74%	6,127.23 6,071.31 -55.92 FEB 18,42% 18,62%	7,016.10 6,909.06 -107.04 MAR 17.89% 19,12%	7,719.94 6,907.49 -812.45 APR 18.11% 17.82%	7,864.68 6,973.67 -891.01 MAY 14.69% 19.59%	8,418.75 7,873.35 -545.40 JUN 15.07% 17.50%	9,104.63 8,397.70 -706.93 JUL 14.08% 16.05%	8,546.59 8,296.98 -249.51 AUG 13.84% 15.90%	8,283,59 8,074,90 -208,69 SEP 12,72% 16,23%	7,363.91 7,230.34 -133.57 OCT 16.93% 17.86%	6.047.22 5.614.81 -432.41 NOV 18.83% 20.42%	5,625.94 5,521.31 -104.63 DEC 19.92% 19.13%	89,667.9: 83,924.8 -5,743.1 TOTAL 16:029 17.919
MONTH 2009 2010 of Dry Waste MONTH 2009 2010 2010	7,549.37 6,053.89 -1,495.48 JAN 17.08% 18.74% 1.66%	6,127.23 6,071.31 -55.92 FEB 18,42% 18,62% 0.20%	7,016.10 6,909.06 -107.04 MAR 17,69% 19,12% 1,23%	7,719.94 6,907.49 -812.45 APR 16.11% 17.82% 1.71%	7,864.68 6,973.67 -891.01 MAY 14,69% 19,59% 4,90%	8,418.75 7,873.35 -545.40 JUN 15.07% 17.50% 2.43%	9,104.63 8,397.70 -706.93 JUL 14.08% 16.05% 1.97%	8,548.59 8,296.98 -249.61 AUG 13,84% 15,90% 2,06%	8,283,59 8,074,90 -208,69 SEP 12,72% 16,23% 3,51%	7,363.91 7,230.34 -133.57 OCT 16,93% 17,86% 0.93%	6.047.22 5.614.81 -432.41 NOV 18.83% 20.42% 1.59%	5,625,94 5,521,31 -104.63 DEC 19,92% 19,13% -0,79%	89,667.93 83,924.81 -5.743.14 TOTAL 16.02% 17.91% 1.899 TOTAL
MONTH 2009 2010 of Dry Waste MONTH 2009 2010 2010 sund MSW	7,549.37 6,053.89 -1,495.48 JAN 17.08% 18.74% 1.66% JAN	6,127.23 6,071.31 -55.92 FEB 18,42% 18,62% 0.20% FEB	7,016.10 6,909.06 -107.04 MAR 17.69% 19.12% 1.23% MAR	7,719.94 6,907.49 -812.45 APR 16.11% 17.82% 1.71% APR	7,864.68 6,973.67 -891.01 MAY 14,69% 19,59% 4,90% MAY	8,418.75 7,873.35 -545.40 JUN 15.07% 17.50% 2.43% JUN	9,104.63 8,397.70 -706.93 JUL 14.08% 16.05% 1.97% JUL	8,548.59 8,296.98 -249.61 AUG 13,84% 15,90% 2.06% AUG	8,283.59 8,074.90 -208.69 SEP 12,72% 16,23% 3.51% SEP	7,363.91 7,230.34 -133.57 OCT 16,93% 17,86% 0.93% 0.93%	6,047.22 5,614.81 -432.41 NOV 18.83% 20.42% 1.59% NOV	5,625,94 5,521,31 -104,63 DEC 19,92% 19,13% -0,79% DEC	89,667.95 83,924.81 -5,743.14 TOTAL 16,02% 17,91% 1.89%

## <u>Appendix B</u>

Table 1-2010 Commodities Shipped

Table 2 – 2009 Commodities Shipped

Table 3 – 2010 Commodity Revenue vs. Cost

COMMODITIES SHIPPED 2010 TONS MTD	Updated 12/31/2010												
MONTH	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TIRES	17.06	9.04	24.91	15.61	17.18	16.93	16.27	12.46	11.28	42.94	10.38	10.78	204.84
FERROUS METAL	249.65	275.23	305.51	276.41	293.50	322.07	335.71	300.81	297.77	283.91	208.66	208.43	3,357.66
FOAM PAD	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	3.68	8.16	3.89	15.73
YARD DEBRIS	112.36	149.16	129.45	139.16	138.63	162.43	156.24	127.38	130.29	111.88	111.89	103.34	1,572.21
CARDBOARD	43.64	69.48	62.83	57.99	56.48	65.45	57.07	54.24	54.98	51.92	57.30	52.50	683.88
NON-FERROUS METAL	14.17	15.00	15.71	12.73	13.45	7.99	12.49	8.87	8.61	12.66	19.33	17.13	158.14
GLASS	15.73	12.98	15.52	15.29	12.18	9.33	20.21	27.71	0.00	15.25	16.56	18.31	179.07
OIL/ANTI-FREEZE	9.38	10.13	13.81	14.57	11.37	11.80	9.67	8.79	10.73	15.50	8.62	4.85	129.22
BATTERIES	3.09	1.36	2.85	1.19	3.38	3.42	3.81	3.52	2.87	2.83	2.31	2.16	32.79
OIL FILTERS	0.00	0.00	0.66	0.00	0.00	0.34	0.00		0.00				1.00
ROOFING	0.00	0.00	0.00	0.00	18.27	42.50	43.24	19.97	0.00	0.00			123.98
COMMINGLED	32.02	10.53	31.46	18.57	30.78	20.78	22.25	20.40	16.09	22.22	21.62	22.41	269.13
MILLWOOD	700.62	663.47	814.32	831.59	945.73	880.72	860.34	879.33	885.42	809.37	756.14	718.63	9,745.68
FILM PLASTIC	1.67	0.00	3.51	0.00	0.00	0.00	1.71		1.78		1.24		9.91
RUBBLE	35.54	84.78	71.53	77.05	64.54	83.14	70.53	80.45	69.97	73.89	51.71	31.75	794.88
ELECTRONICS	40.05	36.49	42.55	34.73	29.23	40.50	34.11	36.13	31.01	31.81	28.76	20.15	405.52
PROPANE 1-LBS	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	1.13			1.13
CARPET	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00			0.00
TEXTILES RECYCLING	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00				0.00
COMMUNITY RECYCLING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	a shares	0.00		0.43		0.43
PROPANE 5-LBS	1.49	2.30	1.13	0.00	1.70	2.78	1.47	3.61	1.61	1.45	1.42	0.70	19.66
RE-BUILDING CENTER	0.85	5.25	8.83	0.00	0.37	0.00	0.49	0.70	0.58				17.07
SVDP (RE-USE)	6.09	3,89	2.56	9.16	2.74	3.87	1.77	1.80	2.35	2.53			36.76
PLASTIC NURSERY POTS	0.52	0.66	0.36	0.18	0.56	0.39	0.19	0.14	0.79	0.29			4.08
													0.00
													0.00
													0.00
					-								0.00
						1							0.00
TOTAL	1,283.93	1,349.75	1,547.50	1,504.23	1,640.09	1,674.44	1,647.57	1,586.31	1,526.13	1,483.26	1,304.53	1,215.03	17,762.7
Metro Dry	6,053.89	6,071.31	6,909.06	6,907.49	6,973.67	7,873.35	8,397.70	8,296.98	8,074.90	7,230.34	5,614.81	5,521.31	83,924.8
Less Yard Debris	149.65	218.98	226.66	273.47	273.88	296.47	299.35	266.74	215.44	192.04	157,71	159.02	2,729.4
Net Recovered	1,134.28	1,130.77	1,320.84	1,230.76	1,366.21	1,377.97	1,348.22	1,319.57	1,310.69	1,291.22	1,146.82	1,056.01	15,033.3
INBOUND MSW	17,456.56	16,869.27	19,600.16	19,809.51	19,615.31	21,369.65	21,249.21	21,027.60	20,676.84	19,594.14	18,982.21	20,962.07	237,212.
OUTBOUND MSW	15,353.01	15,097.73	18,305,53	18,793,85	17,580.58	18,473.15	20,078.46	20,078.38	19,557.23	18,010.15	18,001.78	20,475,11	219,804.9
% recovered to MSW	7.36%	8.00%	7.90%	7.59%	8.36%	7.84%	7.75%	7.54%	7.38%	7.57%	6.87%	5.80%	7.49%
% of Dry Recovered	18.74%	18.62%	19.12%	17.82%	19.59%	17.50%	16.05%	15.90%	16.23%	17.86%	20.42%	19.13%	17.91%
% Dry to MSW	34 68%	35,99%	35.25%	34,87%	35.55%	36.84%	39.52%	39 46%	39.05%	36.90%	29.58%	26.34%	35.38%

# Metro South Recovery Revenue Report

April 2010							
Material	Tons	Loads/Units	Т	RUX	Cost		Net revenue
TIRES	15.61	2	\$	-	\$	1,170.75	-\$1,170.75
FERROUS METAL	276.41	68	\$	51,025.30	\$	981.00	\$50,044.30
		1					
FOAM PAD	-	0	\$	-	\$	-	\$0.00
YARD DEBRIS	139.16	8	\$	-	\$	1,489.52	-\$1,489.52
CARDBOARD	57.99	3	\$	4,055.10	\$	558.57	\$3,496.53
NON-FERROUS METAL	12.73	6	\$	10,188.00	\$	-	\$10,188.00
GLASS	15.29	3	\$	152.90	\$	285.00	-\$132.10
OIL/ANTI-FREEZE	14.57	4	\$	2,011.90	\$	-	\$2,011.90
BATTERIES	1.19	1	\$	132.00	\$	-	\$132.00
OIL FILTERS	-	0	\$	-	\$	-	\$0.00
ROOFING	-	0	\$	-	\$	-	\$0.00
COMMINGLED	18.57	4	\$	594.80	\$	280.00	\$314.80
MILLWOOD	831.59	57	\$	2,791.20	\$	16,383.60	-\$13,592.40
			Γ			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	
FILM PLASTIC	-	0	\$	-	\$	-	\$0.00
RUBBLE	77.05	8	\$	-	\$	760.00	-\$760.00
ELECTRONICS	34.73	12	\$	4,167.60	\$	-	\$4,167.60
PROPANE 5-LBS	_	0	\$	-	\$	-	\$0.00
RE-BUILDING CENTER	-	0	\$	-	\$		\$0.00
SVDP (RE-USE)	9.16	3	\$	-	\$	-	\$0.00
PLASTIC NURSERY POTS	0.18	1	\$	-	\$	-	\$0.00
·····	1,504.23	· · · · · · · · · · · · · · · · · · ·					\$53,210.36

**Tons** = Tons recovered in the month (from scale reports)

Loads/Units = Number of loads hauled or units sent to market in the month

Net Revenue = TRUX \$ for the month less transportation or disposal cost

### Metro South Recovery Revenue Report May 2010

Material	Tons	Loads/Units	TRUX	Cost	:	Net revenue
TIRES	17.18	2	\$-	\$	1,288.50	-\$1,288.50
FERROUS METAL	293.50	75	\$ 45,400.20	\$	1,584.00	\$43,816.20
METRO METALS		72	\$ 45,400.20	\$	-	
SVDP		3	\$-	\$	1,584.00	
FOAM PAD	-	0	\$-	\$	<u>-</u> .	\$0.00
YARD DEBRIS	138.63	8	\$-	\$	1,489.52	-\$1,489.52
CARDBOARD	56.48	4	\$ 3,935.40	\$	628.57	\$3,306.83
NON-FERROUS METAL	13.45	5	\$ 10,247.00	\$	-	\$10,247.00
GLASS	12.18	2	\$ 121.80	\$	190.00	-\$68.20
OIL/ANTI-FREEZE	11.37	3	\$ 1,315.70	\$	-	\$1,315.70
BATTERIES	3.38	2	\$ 441.52	\$	-	\$441.52
OIL FILTERS	-	. 0	\$ -	\$	· -	\$0.00
ROOFING	18.27	2	\$-	\$	839.40	-\$839.40
COMMINGLED	30.78	5	\$ 618.80	\$	350.00	\$268.80
MILLWOOD	945.73	65	\$ 3,025.15	\$	18,490.28	-\$15,465.13
SP RECYCLING		42	\$ 3,025.15	\$	12,740.28	
NWWF		23	\$-	\$	5,750.00	
FILM PLASTIC	-	0	\$-	\$	-	\$0.00
RUBBLE	64.54	5	\$-	\$	475.00	-\$475.00
ELECTRONICS	29.23	10	\$ 3,507.60	\$	·	\$3,507.60
PROPANE 5-LBS	1.70	1	\$-	\$	338.00	-\$338.00
RE-BUILDING CENTER	0.37	1	\$-	\$	-	\$0.00
SVDP (RE-USE)	2.74	2	\$-	\$	÷	\$0.00
PLASTIC NURSERY POTS	0.56	2	\$-	\$	-	\$0.00
	1,640.09					\$42,939.90

**Tons =** Tons recovered in the month (from scale reports)

## Metro South Recovery Revenue Report June 2010

Material	Tons	Loads/Units	TR	UX	Cost	t	Net revenue
TIRES	16.93	2	\$	-	\$	1,269.75	-\$1,269.75
FERROUS METAL	322.07	77	\$	47,462.40	\$	1,692.00	\$45,770.40
METRO METALS		74	\$	47,462.40	\$	-	
SVDP		3	\$	-	\$	1,692.00	
FOAM PAD	3.24	1	\$	-	\$	-	\$0.00
YARD DEBRIS	162.43	9	\$	-	\$	1,675.71	-\$1,675.71
CARDBOARD	65.45	8	\$	4,326.70	\$	908.57	\$3,418.13
NON-FERROUS METAL	7.99	5	\$	7,464.00	\$	-	\$7,464.00
GLASS	9.33	2	\$	93.30	\$	190.00	-\$96.70
OIL/ANTI-FREEZE	11.80	5	\$	1,752.30	\$	195.00	\$1,557.30
BATTERIES	3.42	2	\$	752.48	\$	-	\$752.48
OIL FILTERS	0.34	1	\$	-	\$	195.00	-\$195.00
ROOFING	42.50	5	\$	-	\$	200.00	-\$200.00
COMMINGLED	20.78	4	\$	765.62	\$	280.00	\$485.62
MILLWOOD	880.72	61	\$	2,455.10	\$	17,063.56	-\$14,608.46
SP RECYCLING		34	\$	2,455.10	\$	10,313.56	
NWWF		27	\$	· -	\$	6,750.00	
FILM PLASTIC	· _	0	\$	-	\$	-	\$0.00
RUBBLE	83.14	6	\$	·-	\$	570.00	-\$570.00
ELECTRONICS	40.50	14	\$	4,860.00	\$	-	\$4,860.00
PROPANE 5-LBS	2.78	2	\$	-	\$	480.00	-\$480.00
RE-BUILDING CENTER	-	0	\$	-	\$	-	\$0.00
SVDP (RE-USE)	3.87	2	\$	-	\$	_	\$0.00
PLASTIC NURSERY POTS	0.39	2	\$	_	\$	-	\$0.00
	1,677.68						\$45,212.31

**Tons =** Tons recovered in the month (from scale reports)

#### Metro South Recovery Revenue Report July 2010

Material	Tons	Loads/Units	TR	UX	Cost	t .	Net revenue
TIRES	16.27	2	\$	. –	\$	1,220.25	-\$1,220.25
FERROUS METAL	335.71	86	\$	48,792.00	\$	2,394.00	\$46,398.00
METRO METALS		82	\$	48,792.00	\$	-	
SVDP		4	\$		\$	2,394.00	
FOAM PAD	-	0			\$	-	\$0.00
YARD DEBRIS	156.24	11	\$	-	\$	2,048.09	-\$2,048.09
CARDBOARD	57.07	20	\$	4,256.00	\$	1,864.76	\$2,391.24
NON-FERROUS METAL	12.49	4	\$	7,254.00	\$	-	\$7,254.00
GLASS	20.21	2	\$	202.10	\$	190.00	\$12.10
OIL/ANTI-FREEZE	9.67	3	\$	1,624.27	\$	391.75	\$1,232.52
BATTERIES	3.81	2	\$	590.00	\$	-	\$590.00
OIL FILTERS	-	0	\$	· –	\$	-	\$0.00
ROOFING	43.24	4	\$	-	\$	1,081.00	-\$1,081.00
COMMINGLED	22.25	5	\$	934.50	\$	350.00	\$584.50
MILLWOOD	860.34	63	\$	728.45	\$	16,336.74	-\$15,608.29
SP RECYCLING		11	\$	728.45	\$	3,336.74	
NWWF		52	\$	-	\$	13,000.00	
FILM PLASTIC	1.71	1	\$	-	\$	70.00	-\$70.00
RUBBLE	70.53	7	\$	•	\$	665.00	-\$665.00
ELECTRONICS	34.11	11	\$	4,093.20	\$	-	\$4,093.20
PROPANE 5-LBS	1.47	1	\$	-	\$	284.00	-\$284.00
RE-BUILDING CENTER	0.49	1	\$	-	\$	· -	\$0.00
SVDP (RE-USE)	1.77	2	\$	-	\$	-	\$0.00
PLASTIC NURSERY POTS	0.19	1	\$	-	\$	÷	\$0.00
	1,647.57						\$41,578.93

**Tons** = Tons recovered in the month (from scale reports)

### Metro South Recovery Revenue Report August 2010

Material	Tons	Loads/Units	TRUX	(	Cost		Net revenue
TIRES	12.46	1	\$	-	\$	934.50	-\$934.50
FERROUS METAL	300.81		\$	47,003.30	\$	1,998.00	\$45,005.30
METRO METALS		73	\$	47,003.30	\$	-	
SVDP		3	\$	-	\$	1,998.00	
FOAM PAD		0	\$	-	\$	-	\$0.00
YARD DEBRIS	127.38	12	\$	-	\$	2,234.28	-\$2,234.28
CARDBOARD	54.24	10	\$	4,164.00	\$	1,745.71	\$2,418.29
NON-FERROUS METAL	8.87	837	\$	6,074.00	\$	-	\$6,074.00
GLASS	27.71	4	\$	144.10	\$	356.26	-\$212.16
OIL/ANTI-FREEZE	8.79	5	\$	930.43	\$	-	\$930.43
BATTERIES	3.52	2	\$	749.00	\$	-	\$749.00
OIL FILTERS	-	0	\$	-	\$	-	\$0.00
ROOFING	19.97	2	\$	-	\$	190.00	-\$190.00
COMMINGLED	20.40	5	\$	856.80	\$	420.00	\$436.80
MILLWOOD	879.33	.74	\$	1,295.30	\$	19,566.80	-\$18,271.50
SP RECYCLING		20	\$	1,295.30	\$	6,066.80	
NWWF		54	\$	-	\$	13,500.00	
FILM PLASTIC	-	0	\$	-	\$	-	\$0.00
RUBBLE	80.45	2	\$	-	\$	190.00	-\$190.00
ELECTRONICS	36.13	12	\$	4,335.60	\$	-	\$4,335.60
PROPANE 5-LBS	3.61	2	\$	-	\$	610.00	-\$610.00
RE-BUILDING CENTER	0.70	1	\$	1	\$	-	\$0.00
SVDP (RE-USE)	1.80	1	\$	-	\$	-	\$0.00
PLASTIC NURSERY POTS	0.14	1	\$	-	\$	-	\$0.00
	1,586.31						\$37,306.98

**Tons =** Tons recovered in the month (from scale reports)

#### Metro South Recovery Revenue Report September 2010

Material	Tons	Loads/Units	TRU	X	Cost		Net revenue
TIRES	11.28	1	\$	-	\$	846.00	-\$846.00
FERROUS METAL	297.77	72	\$	49,647.60	\$	1,935.00	\$47,712.60
METRO METALS		69	\$	49,647.60	\$	-	
SVDP		3	\$	-	\$	1,935.00	
FOAM PAD		0	\$	-	\$	-	\$0.00
YARD DEBRIS	130.29	9	\$	-	\$	1,675.71	-\$1,675.71
CARDBOARD	54.98	7	\$	5,332.00	\$	1,303.33	\$4,028.67
NON-FERROUS METAL	8.61	2	\$	7,304.60	\$	-	\$7,304.60
GLASS	-	0	\$	-	\$	-	\$0.00
OIL/ANTI-FREEZE	10.73	5	\$	799.05	\$	354.47	\$444.58
BATTERIES	2.87	2	\$	422.48	\$	-	\$422.48
OIL FILTERS	-	0	\$	-	\$	-	\$0.00
ROOFING	-	0	\$	-	\$	-	\$0.00
COMMINGLED	16.09	4	\$	740.14	\$	280.00	\$460.14
MILLWOOD	885.42	70	\$	1,929.05	\$	19,206.88	-\$17,277.83
SP RECYCLING		32	\$	1,929.05	\$	9,706.88	
NWWF		38	\$	-	\$	9,500.00	
FILM PLASTIC	1.78	1	\$	- <sup></sup>	\$	70.00	-\$70.00
RUBBLE	69.97	6	\$	-	\$	570.00	-\$570.00
ELECTRONICS	31.01	10	\$	3,721.20	\$	-	\$3,721.20
PROPANE 5-LBS	1.61	1	\$	-	\$	306.00	-\$306.00
RE-BUILDING CENTER	0.58	1	\$	-	\$	-	\$0.00
SVDP (RE-USE)	2.35	1	\$	-	\$	-	\$0.00
PLASTIC NURSERY POTS	0.79		\$	-	\$	-	\$0.00

**Tons** = Tons recovered in the month (from scale reports)

### Metro South Recovery Revenue Report October 2010

Material	Tons	Loads/Units	TRI	JX ·	Cost		Net revenue
TIRES	42.94	4	\$	-	\$	2,733.75	-\$2,733.75
FERROUS METAL	283.91	66	\$	44,177.90	\$	2,187.00	\$41,990.90
METRO METALS		62	\$	44,177.90	\$	-	
SVDP		4	\$	· _	\$	2,187.00	
FOAM PAD	3.68	2	\$	294.40	\$	-	\$294.40
YARD DEBRIS	111.88	8	\$	-	\$	1,493.12	-\$1,493.12
CARDBOARD	51.92	8	\$	4,940.00	\$	1,376.48	\$3,563.52
NON-FERROUS METAL	12.66	5	\$	9,024.88	\$	-	\$9,024.88
GLASS	15.25	1	\$	-	\$	95.00	-\$95.00
ANTI-FREEZE/OIL	15.50	7	\$	115.80	\$	-	\$115.80
BATTERIES	2.83	2	\$	441.48	\$	-	\$441.48
OIL FILTERS	-	0	\$	-	\$	-	\$0.00
ROOFING	-	0	\$	-	\$	-	\$0.00
COMMINGLED	22.22	5	\$	1,327.04	\$	350.00	\$977.04
MILLWOOD	809.37	63	\$	1,331.25	\$	16,998.66	-\$15,667.41
SP RECYCLING		21	\$	1,331.25	\$	6,412.98	
NWWF		42	\$	-	\$	10,585.68	
FILM PLASTIC	-	0	\$	-	\$		\$0.00
RUBBLE	73.89	7	\$	-	\$	665.00	-\$665.00
ELECTRONICS	31.81	11	\$	3,817.20	\$	-	\$3,817.20
PROPANE 5-LBS	2.58	1	\$	-	\$	292.00	-\$292.00
RE-BUILDING CENTER	-	0	\$	-	\$	<u>-</u>	\$0.00
SVDP (RE-USE)	2.53	1	\$		\$	-	\$0.00
PLASTIC NURSERY POTS	0.29	1	\$	-	\$	-	\$0.00
							\$39,278.94

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**Tons** = Tons recovered in the month (from scale reports)

### Metro South Recovery Revenue Report November 2010

Material	Tons	Loads/Units	TF	RUX	Cos	st	Net revenue
TIRES	10.38	1	\$	-	\$	778.50	-\$778.50
FERROUS METAL	213.23	49	\$	33,484.50	\$	612.00	\$32,872.50
METRO METALS		49	\$	33,484.50	\$	-	
SVDP		1	\$	_	\$	612.00	
FOAM PAD	8.16	6	\$	652.80	\$		\$652.80
YARD DEBRIS	111.89	5	\$	-	\$	2,501.20	-\$2,501.20
CARDBOARD	57.30	7	\$	5,595.00	\$	1,188.64	\$4,406.36
NON-FERROUS METAL	13.78	4	\$	10,319.60	\$	-	\$10,319.60
GLASS	16.56	2	\$	-	\$	190.00	-\$190.00
OIL/ANTI-FREEZE	8.62	5	\$	584.85	\$	414.00	\$170.85
BATTERIES	2.31	2	\$	349.00	\$	-	\$349.00
OIL FILTERS	-	0	\$	-	\$	-	\$0.00
ROOFING		0	\$	-	\$		\$0.00
COMMINGLED	21.62	4	\$	1,360.99	\$	280.00	\$1,080.99
MILLWOOD	729.94	54	\$	1,217.85	\$	11,321.16	-\$10,103.31
SP RECYCLING		19	\$	1,217.85	\$	4,788.76	
NWWF		35	\$	-	\$	6,532.40	
FILM PLASTIC		1	\$	-	\$	85.00	-\$85.00
RUBBLE	51.71	5	\$	-			\$0.00
ELECTRONICS	28.76	11	\$	3,451.20	\$	-	\$3,451.20
PROPANE 5-LBS	1.42	1	\$	-	\$	258.00	-\$258.00
RE-BUILDING CENTER	-	0	\$	-	\$		\$0.00
SVDP (RE-USE)	0.43	1	\$	-	\$	_	\$0.00
PLASTIC NURSERY POTS	-	0	\$	-	\$	-	\$0.00

**Tons** = Tons recovered in the month (from scale reports)

# Metro South Recovery Revenue Report

## December 2010

Material	Tons	Loads/Units	Ŧ	RUX	С	ost	Net revenue
TIRES	10.78	1	\$	-	\$	808.50	-\$808.50
FERROUS METAL	208.43	53	\$	38,012.00	\$	1,800.00	\$36,212.00
METRO METALS		51	\$	38,012.00	\$	-	
SVDP		2	\$	_	\$	1,800.00	
FOAM PAD	3.89	2	\$	311.20	\$	-	\$311.20
YARD DEBRIS	103.34	5	\$	_	\$	2,508.20	-\$2,508.20
CARDBOARD	52.50	6	\$	2,380.00	\$	1,118.64	\$1,261.36
WALSH	÷	6	\$	2,380.00	\$	1,118.64	-
4455		0	\$	-	\$	-	
NON-FERROUS METAL	17.13	6	\$	12,795.80	\$	-	\$12,795.80
GLASS	18.31	1	\$	-	\$	95.00	-\$95.00
OIL/ANTI-FREEZE	4.85	3	\$	460.60	\$	_	\$460.60
BATTERIES	2.16	2	\$	372.48	\$	-	\$372.48
OIL FILTERS	-	0	\$	-	\$	-	\$0.00
ROOFING	-	0	\$	- ;	\$	-	\$0.00
COMMINGLED	22.41	6	\$	1,559.13	\$	420.00	\$1,139.13
MILLWOOD	718.63	45	\$	1,833.00	\$	12,728.64	-\$10,895.64
SP NEWSPRINT		26	\$	1,833.00	\$	7,939.88	
NWWF		19	\$	-	\$	4,788.76	
FILM PLASTIC	-	0	\$		\$	-	\$0.00
RUBBLE	31.75	2	\$	-	\$	190.00	-\$190.00
ELECTRONICS	20.09	7	\$	2,410.80	\$	-	\$2,410.80
PROPANE 5-LBS	0.70	1	\$	-	\$	136.00	-\$136.00
RE-BUILDING CENTER	· -	0	\$	-	\$	-	\$0.00
SVDP (RE-USE)		0	\$	-	\$	-	\$0.00
PLASTIC NURSERY POTS	-	0	\$	-	\$	-	\$0.00
							\$40,330.03

**Tons** = Tons recovered in the montl (from scale reports)

## <u>Appendix C</u>

Exhibit 1 – 2/26/2010 Exhibit 2 – 3/29/2010 Exhibit 3 – 11/6/2010 Exhibit 4 – 11/22/2010

Exhibit 5 – 12/9/2010



PORTLAND, OR 9405 S BEAVER

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210 ORELAP#: OR100021

March 15, 2010

Kelly Herrod Republic Services-Shipping only 2001 Washington St Oregon City, OR 97045

**RE:** Stormwater Discharge

Enclosed are the results of analyses for samples received by the laboratory on  $03/01/10\ 07:20$ . The following list is a summary of the Work Orders contained in this report, generated on  $03/15/10\ 17:42$ .

If you have any questions concerning this report, please feel free to contact me.

Work Order PTC0007 Project Stormwater Discharge <u>ProjectNumber</u> Q1 Storm Water Sampling 2 o

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#### THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Shipping onlyProject Name:Stormwater Discharge2001 Washington StProject Number:Q1 Storm Water Sampling 2 of 2Report Created:Oregon City, OR 97045Project Manager:Kelly Herrod03/15/10 17:42

	ANALYTICAL REPORT FOR SAMPLES								
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received					
Outfall #1	PTC0007-01	Water	02/26/10 12:40	03/01/10 07:20					
Outfall #2	PTC0007-02	Water	02/26/10 12:35	03/01/10 07:20					
Outfall #3	PTC0007-03	Water	02/26/10 12:45	03/01/10 07:20					
Outfall #4	PTC0007-04	Water	02/26/10 12:55	03/01/10 07:20					
Outfall #5	PTC0007-05	Water	02/26/10 13:00	03/01/10 07:20					
Outfall #6	PTC0007-06	Water	02/26/10 13:10	03/01/10 07:20					

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Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Shipping onlyProject Name:Stormwater Discharge2001 Washington StProject Number:Q1 Storm Water Sampling 2 of 2Report Created:Oregon City, OR 97045Project Manager:Kelly Herrod03/15/10 17:42

			Oil an	d Greas		v <b>sis per</b> ] erica Port		ethod 16	64		
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0007-01	(Outfall #1)			Wa	iter		Sam	pled: 02/26/	10 12:40		
Oil & Grease		EPA 1664	ND		4.85	mg/l	lx	10C0365	03/12/10 11:30	03/12/10_13:57	
PTC0007-02	(Outfall #2)			Wa	iter		Sam	pled: 02/26/	10 12:35		
Oil & Grease		EPA 1664	ND		5.00	mg/l	lx	10C0365	03/12/10 11:30	03/12/10 13:57	
PTC0007-03	(Outfall #3)		· .	Wa	iter		Sam	pled: 02/26/	10 12:45		
Oil & Grease		EPA 1664	ND		5.00	mg/l	lx	10C0365	03/12/10 12:20	03/12/10 13:57	
РТС0007-04	(Outfall #4)			Wa	iter		Sam	pled: 02/26/	10 12:55		
Oil & Grease		EPA 1664	ND		5.00	mg/l	1x	10C0365	03/12/10 12:20	03/12/10 13:57	
PTC0007-05	(Outfall #5)			Wa	iter		Sam	pled: 02/26/	10 13:00		
Oil & Grease		EPA 1664	ND		4.85	mg/l	lx	10C0365	03/12/10 12:20	03/12/10 13:57	
РТС0007-06	(Outfall #6)			Wa	iter		Sam	pled: 02/26/	10 13:10		
Oil & Grease		EPA 1664	ND		4.81	mg/l	1 <b>x</b>	10C0365	03/12/10 12:20	03/12/10 13:57	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Shipping only	Project Name:	Stormwater Discharge	
2001 Washington St	Project Number:	Q1 Storm Water Sampling 2 of 2	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	03/15/10 17:42

			Tot	al Meta	-	PA 200 erica Port		Methods	۱ 		· · · · · · · · · · · · · · · · · · ·
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0007-01	(Outfall #1)			W	ater		Sam	pled: 02/26/	10 12:40		
Copper		EPA 200.8	0.0271		0.00200	mg/l	lx	10C0047	03/02/10 11:41	03/03/10 18:21	
Lead		"	0.0438		0.00100	•	н	"	н		
Zinc		**	0.217		0.0100		н	и		н	•
PTC0007-02	(Outfall #2)			w	ater		Sam	pled: 02/26/	10 12:35		
Copper		EPA 200.8	0.0184		0.00200	mg/l	lx	10C0047	03/02/10 11:41	03/03/10 18:29	
Lead		*	0.0247		0.00100	•	н	и	H	u	
Zinc			0.0941		0.0100		н	и	м	<b>H</b>	
РТС0007-03	(Outfall #3)			w	ater		Sam	pled: 02/26/	10 12:45		
Copper		EPA 200.8	0.0128		0.00200	mg/l	lx	10C0047	03/02/10 11:41	03/03/10 19:00	
Lead			0.0174		0.00100					**	
Zinc		•	0.101		0.0100	n	"	"	я	Ħ	
РТС0007-04	(Outfall #4)			w	ater		Sam	pled: 02/26/	/10 12:55		
Copper		EPA 200.8	0.0556		0.00200	mg/l	1 <b>x</b>	10C0047	03/02/10 11:41	03/03/10 19:07	
Lead		•	0.165		0.00100				*	н .	
Zinc		•	0.534		0.0100	н		"	.,	н .	
РТС0007-05	(Outfall #5)			w	ater		Sam	pled: 02/26/	10 13:00		
Copper		EPA 200.8	0.0152		0.00200	mg/l	1x	10C0047	03/02/10 11:41	03/03/10 19:15	
Lead			0.0350		0.00100	"	*	н	п		
Zinc		"	0.133		0.0100	"	n	н	н		
РТС0007-06	(Outfall #6)			w	ater		Sam	pled: 02/26/	/10 13:10		
Copper		EPA 200.8	0.0132		0.00200	mg/l	lx	10C0047	03/02/10 11:41	03/03/10 19:23	
Lead			0,00812		0.00100	"	u	н	н	it.	
Zinc			0.0762		0.0100	*	н		н	н	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

#### THE LEADER IN ENVIRONMENTAL TESTING

Republic Services-Shipping on	шу-	
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2001 Washington St

Oregon City, OR 97045

Project Name: Sto Project Number: Q1 Project Manager: Kel

Stormwater Discharge Q1 Storm Water Sampling 2 of 2 Kelly Herrod

Report Created: 03/15/10 17:42

	Con	ventiona	l Chemist	-	<b>rameter</b> erica Portl	-	tandard	Methods		• •
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0007-01 (Outfall #1)			Water			Samj	pled: 02/26/			
Total Suspended Solids	SM 2540D	210		10.0	mg/l	lx	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-02 (Outfall #2)			Water			Samj	pled: 02/26/	10 12:35	۰.	·
Total Suspended Solids	SM 2540D	20.0		10.0	mg/l	1 <b>x</b>	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-03 (Outfall #3)			Water	•		Sam	pled: 02/26/	10 12:45		
Total Suspended Solids	SM 2540D	70.0		10.0	mg/l	lx	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-04 (Outfall #4)			Water			Samj	pled: 02/26/	10 12:55		
Total Suspended Solids	SM 2540D	100		10.0	mg/l	lx	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-05 (Outfall #5)			Water			Samj	pled: 02/26/	10 13:00		
Total Suspended Solids	SM 2540D	60.0		10.0	mg/l	1 <b>x</b>	10C0143	03/04/10 16:32	03/04/10 17:39	
PTC0007-06 (Outfall #6)			Water	•		Sam	pled: 02/26/	10 13:10		
Total Suspended Solids	SM 2540D	10.0		10.0	mg/l	lx	10C0143	03/04/10 16:32	03/04/10 17:39	

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THE LEADER IN ENVIRONMENTAL TESTING

Republic Services-Shipping only	Project Name:	Stormwater Discharge	
2001 Washington St	Project Number:	Q1 Storm Water Sampling 2 of 2	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	03/15/10 17:42

	F	ield Testing	of Conv		Chemistry Par TestAmerica Port		rs per AP	PHA/EPA M	lethods	аналанан аларын алар Аларын аларын
Analyte		Method	Result	MDL*	MRL Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0007-01	(Outfall #1)			Water			pled: 02/26/	10 12:40		
pH		EPA 150.1	7.73		pH Units	lx	10C0081	02/26/10 12:45	02/26/10 12:50	
PTC0007-02	(Outfall #2)			Wate	r	Sam	pled: 02/26/	10 12:35		
pH		EPA 150.1	7.02	·	pH Units	lx	10C0081	02/26/10 12:40	02/26/10 12:45	
PTC0007-03	(Outfall #3)			Wate	r	Sam	pied: 02/26/	10 12:45		
pH	· · · ·	EPA 150.1	7.06		pH Units	1x	10C0081	02/26/10 12:50	02/26/10 12:55	
PTC0007-0 <u>4</u>	(Outfall #4)			Wate	r	Sam	pled: 02/26/	10 12:55		_
pH		EPA 150.1	7.44		pH Units	lx	10C0081	02/26/10 13:00	02/26/10 13:05	
РТС0007-05	(Outfall #5)			Wate	r	Sam	pled: 02/26/	10 13:00		
pH		EPA 150.1	7.35		pH Units	lx	10C0081	02/26/10 13:05	02/26/10 13:10	
РТС0007-06	(Outfall #6)			Wate	r	Sam	pled: 02/26/	10 13:10		
рН		EPA 150.1	7.46		pH Units	1x	10C0081	02/26/10 13:15	02/26/10 13:20	

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Brian Cone, Industrial Services Manager

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#### THE LEADER IN ENVIRONMENTAL TESTING

Republic Services-Shipping only	Project Name:	Stormwater Discharge	
2001 Washington St	Project Number:	Q1 Storm Water Sampling 2 of 2	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	03/15/10 17:42

	Oil and Gre	ease Analysi		Method estAmerica	이 나라 한 말을 수 있다.		tory Qua	slity Control Results
QC Batch: 10C0365	Water P	reparation M	lethod: Od	&G prep (	CE			
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike % (Limits) % (Limits) Analyzed Notes Amt REC RPD
Blank (10C0365-BLK1)								Extracted: 03/12/10 10:45
Oil & Grease	EPA 1664	ND		5.00	mg/l	lx		03/12/10 13:57
LCS (10C0365-BS1)								Extracted: 03/12/10 10:45
Oil & Grease	EPA 1664	40.1			mg/l	lx		40.0 100% (78-114) 03/12/10 13:57
Matrix Spike (10C0365-MS1)			-	QC Source:	РТС0047-	01		Extracted: 03/12/10 10:45
Oil & Grease	EPA 1664	42.6			mg/l	lx	3.56	40.0 97.6% (78-114) 03/12/10 13:57
Matrix Spike Dup (10C0365-MS	SD1)			QC Source:	PTC0047-	01		Extracted: 03/12/10 10:45
Oil & Grease	EPA 1664	40.5			mg/l	lx	3,56	40.0 92.4% (78-114) 5.05% (18) 03/12/10 13:57

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Shipping only	Project Name:	Stormwater Discharge	
2001 Washington St	Project Number:	Q1 Storm Water Sampling 2 of 2	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	03/15/10 17:42

	Total Me	tals per EPA					y Qualit	y Cont	rol R	esults		-	the state of the second se	n de Servier Antonio Servier
			T	estAmeric	a Portland	l .								
QC Batch: 10C0047	Water P	reparation M	lethod: E	PA 200/30	05									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	) Analyzed	Notes
Blank (10C0047-BLK1)								Extr	acted:	03/02/10 11	:41			
Copper	EPA 200.8	ND		0.00200	mg/l	lx						·	03/03/10 16:05	
Lead	"	ND		0.00100	н	"		'						
Zinc	Ħ	ND		0.0100	۳.,	н								
LCS (10C0047-BS1)	· · · ·							Extr	acted:	03/02/10 11	:41			
Copper	EPA 200.8	0.0959		0.00200	mg/l	lx		0.100	95.9%	(85-115)			03/03/10 16:13	
Lead	u.	0.0972		0.00100	"	"			97.2%	"			<b>n</b>	
Zinc	II	0.0936		0.0100				•	93.6%	"				
Duplicate (10C0047-DUP1)				QC Source:	PTB0817-	01		Extr	acted:	03/02/10 11	:41	_		
Copper	EPA 200.8	0.682		0.00400	mg/l	2x	0.678				0.559%	(20)	03/03/10 16:59	
Lead	n	0.0100		0.00200			0.0101				1.19%			
Zinc	n	0.392		0.0200			0.393				0.102%	. "		
Matrix Spike (10C0047-MS1)				QC Source:	PTB0817-	01		Extr	acted:	03/02/10 11	:41			
Copper	EPA 200,8	0.759		0.00400	mg/l	2x	0.678	0.100	81.4%	(75-125)			03/03/10 17:06	
Lead	*	0.0976	·	0.00200			0.0101		87.5%	u.				
Zinc	n	0.477		0.0200			0.393		84.2%	(70-130)				
Matrix Spike (10C0047-MS2)				QC Source:	PTC0007-	02		Extr	acted:	03/02/10 11	:41			
Copper	EPA 200.8	0.112		0.00200	mg/l	lx	0.0184	0.100	94.0%	(75-125)			03/03/10 18:37	

0.123

0.190

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0.00100

0.0100

77

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0.0247

0.0941

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Lead

Zinc

Becan L Come

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95.5% (70-130)

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98,5%

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Shipping only	Project Name:	Stormwater Discharge	
2001 Washington St	Project Number:	Q1 Storm Water Sampling 2 of 2	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	03/15/10 17:42

			이 아이는 것 같아. 문제 같이	estAmeric							같다. 같은 것 같아요.	
QC Batch: 10C0143	Water P	reparation M	lethod: Go	eneral Pro	eparation				· ·			
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike % Amt REC	(Limits) % RPD	(Limits)	Analyzed	Notes
Blank (10C0143-BLK1)		•						Extracted:	03/04/10 16:32		<u> </u>	
Total Suspended Solids	SM 2540D	ND		10.0	mg/l	1 <b>x</b>				03	/04/10 17:39	
LCS (10C0143-BS1)								Extracted:	03/04/10 16:32			
Total Suspended Solids	SM 2540D	60.0		10.0	mg/l	1x	-	60.0 100%	6 (80-120)	03	/04/10 17:39	
Duplicate (10C0143-DUP1)				QC Source:	PTC0052-	01		Extracted:	03/04/10 16:32			
Total Suspended Solids	SM 2540D	20.0		10.0	mg/l	lx	20.0		0.00%	% (20) 03	/04/10 17:39	

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Page 9 of 10

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PORTLAND, OR 9405 5.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Shipping onlyProject Name:Stormwater Discharge2001 Washington StProject Number:Q1 Storm Water Sampling 2 of 2Report Created:Oregon City, OR 97045Project Manager:Kelly Herrod03/15/10 17:42

Notes and Definitions

#### Report Specific Notes:

None

#### Laboratory Reporting Conventions:

DET Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only. ND Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate). ..... NR/NA Not Reported / Not Available Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight. dry Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported wet on a Wet Weight Basis. RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries). RPD MRL METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table. MDL\* METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results Dil Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data. Reporting Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and Limits percent solids, where applicable.

Electronic - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Signature Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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THE LEADER IN ENVIRONMENTAL TESTIN																	•	I	-						_	$\sim$	<u> </u>	<u> </u>	1				
Client Name/Account #				tro S	outh								<u>-</u> :							IKI	A I	RU			KE	QU	IE3	<u>,   :</u>	10	DA	<u> </u>		
Address						. <u>.</u>																											
City/State/Zip: Oregon City, OR 97045															Report To: Kelly Herrod Invoice To:																		
Project Manager				•																							<u> </u>						
Telephone Number	: 503-722-	4656			<u> </u>	- Fa	x N	o.:_				· ·					\ Qu														•.		
Sampler Name: (Print													<u> </u>		_		Proje				orm	vate	er										
Sampler Signature	:	la						_									Proj	ect	: #:_														
Tag ID:								F	Pres	erva	ative	}		N	<i>Matri</i>	x						Ana	lyze	Fo	r:								
Sample ID / Description Outfall #1 Outfall #2 Outfall #3 Outfall #4 Outfall #5	- ア - ア - ア - ア - ア - ア - ア - ア	1235 1245 1255 1300	5 5 5 5	X X Grab	Composite		X X X X X	X / X / X / X /	x x x				X X X X Stormwater					x x x x	X X X X X	X X X X	× Sampling-Grab	_	도-PH Time #1: 1,7 나 5	X FT-PH #2: 7, 0%	FT-PH Time #2: \24'D	× FT-PH #3: ア, らじ	FT-PH Time #3: /0,56	× FT-PH #4: ブ, いい	4	× FT-PH#5: 7,35		FT-PH #6: 7	5/2/12/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2
Outfall #6	2-26	1310	5	X			Х	<u>x</u> ]	x		$\square$		X			Ц		x	x	Х												x	
				L				_			$\square$				_	$\square$		$\downarrow$		_	_	_						· _			$\downarrow$		
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Special Instructions:									•	•															ient				. 0	5 f	0		
Received by TestAmerica:	Da		Ti	me	<u> </u>			-												le	mp	era	tur	eι	Jpo	<u>n R</u>	lece	эр	<u> </u>	5- L	<u> </u>		
There																													- [-	- C	)		
Jergang-Morgan	クーク Da		<i>131</i> Ti	6 me	1				•																				2	1	/		
IN LAB	3-1-	- [ 0	07	20							•																		•				

TestAmerica Portland									
Sample Receiving Checklist									
Work Order #: <u>PTC0007</u> Date/Time Received: <u>31110</u> 720 Client Name and Project: <u>REPUBLIC</u> <u>SELVICES</u>									
Time Zone:	······································								
EDT/EST CDT/CST MDT/MST PDT/PST	AK OTHER								
Unpacking Checks:       To         Cooler #(s): $-0$ $3 \cdot 2$ $-0$ Temperatures: $5 \cdot 0$ $-0$ $3 \cdot 2$ $-0$ Digi #1 Digi #2 IR Gun $0$ $0$ $0$ $0$ $0$	Mot enough or No Ice Not enough or No Ice Ice Melted W/in 4 Hrs of collection Other:								
N/A Yes No	Initials								
$\square$ $\square$ $\square$ 1. If ESI client, were temp blanks received? If no, docum	$\pi$								
2. Cooler Seals intact? (N/A if hand delivered) if no, doc									
$\square$ $\square$ 3. Chain of Custody present? If no, document on NOD.	······································								
4. Bottles received intact? If no, document on NOD.									
5. Sample is not multiphasic? If no, document on NOD.									
6. Proper Container and preservatives used? If no, docu									
□	• · · · · · · · · · · · · · · · · · · ·								
8. Cyanide samples checked for sulfides and meet require	ements? If no, notify PM.								
9. HF Dilution required?									
<ul> <li>In Sufficient volume provided for all analysis? If no, d PM before proceeding.</li> <li>In Did chain of custody agree with samples received?</li> </ul>									
$\square$ 11. But chan of custody agree with samples received? $\square$ 12. Is the "Sampled by" section of the COC completed?	a no, document on NOD.								
<ul> <li>✓ ☐ 12. Is the sampled by section of the coce completed?</li> <li>✓ ☐ 13. Were VOA/Oil Syringe samples without headspace?</li> </ul>	en e								
□ □ 14. Were VOA vials preserved? □HCl □Sodium Thio									
□ □ 15. Did samples require preservation with sodium thiosu	•								
$\square$ $\square$ 16. If yes to #15, was the residual chlorine test negative'									
✓ ☐ ☐ 17. Are dissolved/field filtered metals bottles sediment-I									
<ul> <li>✓ □ □ 18. Is sufficient volume provided for client requested M</li> </ul>									
no, document on NOD and contact PM before proceedin 19. Are analyses with short holding times received in ho	<b>g</b> . ,								
20. Was Standard Turn Around (TAT) requested?	n an								
$\square$ 21. Receipt date(s) < 48 hours past the collection date(s)	? If no, notify PM.								

 $F:\Sample\_Receiving\_Documents\Forms\ (effective\ 3/16/09)$ 

TestAmerica Portland Sample Receiving Checklist

Work Order #: PTCOOO7

#### Login Checks:

Initia

N/A	Yes	No	
. *	Ø		22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM.
$\square$			23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If
· · · ·			no, document on NOD and contact PM.
	Z		24. Did the chain of custody include "received by" and "relinquished by" signatures,
	,	•	dates and times?
	Ø,		25. Were special log in instructions read and followed?
· · · · ·	Z		26. Were tests logged checked against the COC?
Z			27. Were rush notices printed and delivered?
Z.			28. Were short hold notices printed and delivered?
Z			29. Were subcontract COCs printed?
X			30. Was HF dilution logged?

## Labeling and Storage Checks:

Lab	eling	and	Storage Checks: Initials
N/A	Yes	No	a de la compañía de l
Z			31. Were the subcontracted samples/containers put in Sx fridge?
			32. Were sample bottles and COC double checked for dissolved/filtered metals?
	<b>L</b>		33. Did the sample ID, Date, and Time from label match what was logged?
Z			34. Were Foreign sample stickers affixed to each container and containers stored in
	· •	•	foreign fridge?
Z/			35. Were HF stickers affixed to each container, and containers stored in Sx fridge?
Z			36. Was an NOD for created for noted discrepancies and placed in folder?

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).



**Client**: Republic Services Metro South Site: Oregon City / Outfalls 001-006 Project: Storm water

## Sampling Documentation Form

Sampler: Jeremy Morgan Date: <u>ス-26-10</u> Time: <u>1ススの</u>

#### Sample Matrix: Water

# Sampling Method: Grab

Grab Sampling Equipment: ISCO:	Other: Dippe	
001 Grab Time: <u>1 ス 4 </u>		
002 Grab Time: 1235		
003 Grab Time: <u>タ45</u>		
004 Grab Time: 1255	· ·	
005 Grab Time: 1300		
006 Grab Time: 13 0		 

I IOIG Dat			
PH Meter	: Thermo	Scientific Orior	3 Star
001 PH:	7.73	Time Taken:	12,45
002 PH:	7.02	Time Taken:	1240
003 PH:	7.06	Time Taken:	12,50
	- 1LL	Time Teken	1200

Field Data

004	PH:	_7,4T	Time Taken:	1 300
005	ъц	725	Timo Tokon	1745

000		_/1 3 5	Third Takon.	
006	PH·	7 41.	Time Taken	1311

			<u> </u>				
PH	Calil	bration	-7 00	huffer	reading	ו יר	6.95

Slope:	10	3.3	· .	
PH Buf	fer 4:	91	(0061	

PH	Buffer 7	7:	211	0062	
PH	Buffer 1	0:	211	0063	

<b>Field Condit</b>	tions:			•		
Weather:	Sunny	Partly cloudy	∖s∕Cloudy	Snowing		
Rainfall:	Heavy	∀ Continuous	Intermitte	nt Light	□ None	

Sample Characte	eristics:			
Color:	Odor:	TSS: X25		
Sediment:	Foam:		 	
Observations an	d Commante			

#### **Observations and Comments:**



PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210 ORELAP#: OR100021

ORELAP#: ORIGODZ

April 13, 2010

Kelly Herrod Republic Services-South Metro 2001 Washington St Oregon City, OR 97045

RE: Stormwater Discharge

Enclosed are the results of analyses for samples received by the laboratory on  $03/30/10\ 07:00$ . The following list is a summary of the Work Orders contained in this report, generated on  $04/13/10\ 16:27$ .

If you have any questions concerning this report, please feel free to contact me.

Work Order PTC0930 <u>Project</u> Stormwater Discharge

ProjectNumber [none]

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South MetroProject Name:Stormwater Discharge2001 Washington StProject Number:[none]Report Created:Oregon City, OR 97045Project Manager:Kelly Herrod04/13/10 16:27

	ANALYTICAL RE	EPORT FOR SAME	PLES	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Outfall #1	РТС0930-01	Water	03/29/10 14:00	03/30/10 07:00
Outfall #2	PTC0930-02	Water	03/29/10 13:50	03/30/10 07:00
Outfall #3	PTC0930-03	Water	03/29/10 14:05	03/30/10 07:00
Outfall #4	РТС0930-04	Water	03/29/10 14:15	03/30/10 07:00
Outfall #5	PTC0930-05	Water	03/29/10 14:20	03/30/10 07:00
Outfall #6	PTC0930-06	Water	03/29/10 14:30	03/30/10 07:00

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#### **Republic Services-South Metro**

2001 Washington St Oregon City, OR 97045 Project Name: Project Number: Project Manager:

[none] Kelly Herrod

Stormwater Discharge

Report Created: 04/13/10 16:27

**Analytical Case Narrative** TestAmerica - Portland, OR

PTC0930

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Republic Services-South Metro	Project Name:	Stormwater Discharge	
2001 Washington St	Project Number:	[none]	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	04/13/10 16:27

			Oil an	d Greas	-	v <b>sis per</b> l erica Port		ethod 16	64			
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
РТС0930-01	(Outfall #1)			Wa	ter		Sam	pled: 03/29/	10 14:00			
Oil & Grease		EPA 1664	ND		5.00	mg/l	lx	10 <b>D0357</b>	04/13/10 11:30	04/13/10 13:18		
PTC0930-02	(Outfall #2)			Wa	ter		Sam	pled: 03/29/	10 13:50			
Oil & Grease		EPA 1664	ND		5.00	mg/l	1 <b>x</b>	10D0357	04/13/10 11:30	04/13/10 13:18		
РТС0930-03	(Outfall #3)			Wa	ter		Sam	pled: 03/29/	10 14:05	н. 		
Oil & Grease		EPA 1664	ND		5.00	mg/l	lx	10D0357	04/13/10 11:30	04/13/10 13:18		
PTC0930-04	(Outfall #4)			Wa	iter		Sam	pled: 03/29/	10 14:15	•		
Oil & Grease		EPA 1664	ND		5.00	mg/l	lx	10D0357	04/13/10 11:30	04/13/10 13:18		
РТС0930-05	(Outfall #5)			Wa	iter		Sam	pled: 03/29/	10 14:20			
Oil & Grease		EPA 1664	ND	<u></u>	5.00	mg/l	lx	10 <b>D0357</b>	04/13/10 12:15	04/13/10 13:18		
РТС0930-06	(Outfall #6)			Wa	iter		Sam	pled: 03/29/	10 14:30			
Oil & Grease		EPA 1664	ND		4.90	mg/l	lx	10 <b>D</b> 0216	04/08/10 20:30	04/09/10 10:01		

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2001 Washi	ervices-South M ngton St 7, OR 97045	letro	·		Project N Project N Project N	lumber:	Stormwater Discharge [none] Kelly Herrod			Report Created: 04/13/10 16:27	
			Tot	al Meta	-	PA 200 erica Por		Methods			· · ·
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
РТС0930-01	(Outfall #1)			W	ater		Sam	pled: 03/29/	10 14:00		
Copper		EPA 200.8	0.00650		0.00200	mg/l	lx	10D0022	04/01/10 11:31	04/07/10 10:50	
Lead		*	0.0128		0.00100		"	•			
Zinc		•	0.0654		0.0100	*	**	*		۳	
PTC0930-02	(Outfall #2)			w	ater		Sam	pled: 03/29/	10 13:50		
Copper		EPA 200.8	0.00949		0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 11:22	
Lead	•	и	0.00254		0.00100	"	н	н	·· ·	11	
Zinc		н	0.0296		0.0100	"	и	н	**	14	
РТС0930-03	(Outfall #3)			w	ater		Sam	pled: 03/29/	10 14:05		
Copper		EPA 200.8	0.0115		0.00200	mg/l	. 1x	10D0022	04/01/10 11:31	04/07/10 11:30	
Lead		R.	0.00884		0.00100	"	"		**	н	
Zinc		19 .	0.0548		0.0100	۳	. *	"	11	н	
PTC0930-04	(Outfall #4)			W	ater		Sam	pled: 03/29/	10 14:15		
Copper		EPA 200.8	0.00816		0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 11:37	
Lead		*	0.0200		0.00100		"		н	н	
Zinc			0.104		0.0100	"		•	n	ų -	
PTC0930-05	(Outfall #5)			W	ater		Sam	pled: 03/29/	10 14:20		
Copper		EPA 200.8	0.0105		0.00200	mg/l	lx	10D0022	04/01/10 11:31	04/07/10 11:45	
Lead		**	0.0301		0.00100		"				
Zinc		11	0.0948		0.0100	"	N	11			
РТС0930-06	(Outfall #6)			w	ater		Sam	pled: 03/29/	10 14:30		
Copper		EPA 200.8	0.00525		0.00200	mg/l	1x	10D0022	04/01/10 11:31	04/07/10 11:53	
Lead		•	0.00438		0.00100	"	н	н		11	
Zinc			0.0321		0.0100	"	n	и	*	n	

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Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South MetroProject Name:Stormwater Discharge2001 Washington StProject Number:[none]Report Created:Oregon City, OR 97045Project Manager:Kelly Herrod04/13/10 16:27

	Con	ventiona	l Chemi	•	rameter erica Portl	-	tandard	Methods		
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0930-01 (Outfall #1)			Wa	ter		Sam	pled: 03/29/	10 14:00		
Total Suspended Solids	SM 2540D	40.0		10.0	mg/l	lx	10 <b>D</b> 0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-02 (Outfall #2)			Wa	ter		Sam	pled: 03/29/	10 13:50		
Total Suspended Solids	SM 2540D	10.0		10,0	mg/l	lx	10D0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-03 (Outfall #3)			Wa	ter		Sam	pled: 03/29/	10 14:05		
Total Suspended Solids	SM 2540D	30.0		10.0	mg/l	lx	10 <b>D</b> 0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-04 (Outfall #4)			Wa	ter		Sam	pled: 03/29/	10 14:15		
Total Suspended Solids	SM 2540D	70.0		10.0	mg/l	lx	10D0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-05 (Outfall #5)			Wa	ter		Sam	pled: 03/29/	10 14:20		
Total Suspended Solids	SM 2540D	30.0		10.0	mg/l	lx	10D0065	04/02/10 10:23	04/02/10 12:40	
PTC0930-06 (Outfall #6)			Wa	ter		Sam	pled: 03/29/	10 14:30	·	:
Total Suspended Solids	SM 2540D	20.0		10,0	mg/l	lx	10D0065	04/02/10 10:23	04/02/10 12:40	

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THE LEADER IN ENVIRONMENTAL TESTING

Republic Services-South Metro	Project Name:	Stormwater Discharge	
2001 Washington St	Project Number:	[none]	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	04/13/10 16:27
· · · · · · · · · · · · · · · · · · ·			

	F	ield Testing	of Convo		C <b>hemis</b> TestAme	•		s per AP	PHA/EPA M	lethods	
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTC0930-01	(Outfall #1)			Wate	er		Samj	pled: 03/29/	10 14:00		
рН		EPA 150.1	7.14			pH Units	1x	10D0331	03/29/10 14:05	03/29/10 14:10	
PTC0930-02	(Outfall #2)			Wate	er		Sam	pled: 03/29/	10 13:50		
рН		EPA 150.1	7.06			pH Units	lx	10D0331	03/29/10 13:55	03/29/10 14:00	
PTC0930-03	(Outfall #3)			Wate	er		Sam	pled: 03/29/	10 14:05		
рН		EPA 150.1	6.97			pH Units	lx	10 <b>D</b> 0331	03/29/10 14:10	03/29/10 14:15	
РТС0930-04	(Outfall #4)			Wate	er		Sam	pled: 03/29/	10 14:15		
pH		EPA 150.1	7.31			pH Units	lx	10D0331	03/29/10 14:20	03/29/10 14:25	
PTC0930-05	(Outfall #5)			Wate	er		Sam	pled: 03/29/	10 14:20		
pH		EPA 150.1	7.26			pH Units	lx	10D0331	03/29/10 14:25	03/29/10 14:30	
PTC0930-06	(Outfall #6)			Wate	er		Sam	pled: 03/29/	10 14:30		
pH		EPA 150.1	7.22			pH Units	1x	10D0331	03/29/10 14:35	03/29/10 14:40	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

**Republic Services-South Metro** Stormwater Discharge Project Name: 2001 Washington St Report Created: Project Number: [none] Oregon City, OR 97045 04/13/10 16:27 Project Manager: Kelly Herrod Oil and Grease Analysis per EPA Method 1664 - Laboratory Quality Control Results **TestAmerica** Portland OC Batch: 10D0216 Water Preparation Method: O&G prep CE Spike % (Limits) Amt REC % RPD Source (Limits) Analyzed Analyte Method MDL\* Notes Result MRL Units Dil Result Blank (10D0216-BLK1) Extracted: 04/08/10 16:40 Oil & Grease EPA 1664 04/09/10 10:01 ND ---5.00 mg/l 1x --LCS (10D0216-BS1) Extracted: 04/08/10 16:40 04/09/10 10:01 Oil & Grease EPA 1664 42.0 ---mg/l 1x 40.0 105% (78-114) ---QC Source: PTC0877-01 Matrix Spike (10D0216-MS1) Extracted: 04/08/10 16:40 Oil & Grease 04/09/10 10:01 M7 EPA 1664 49.3 --mg/l 1x 2.45 40.0 117% (78-114) Matrix Spike Dup (10D0216-MSD1) QC Source: PTC0877-01 Extracted: 04/08/10 16:40 Oil & Grease 44.4 2.45 40.0 105% (78-114) 10.5% (18) 04/09/10 10:01 EPA 1664 ---mg/l 1x OC Batch: 10D0357 Water Preparation Method: O&G prep CE Spike % (Limits) % (Limits) Analyzed Amt REC RPD Source Analyte Method Result MDL\* MRL Units Dil Notes Result Blank (10D0357-BLK1) Extracted: 04/13/10 10:30 EPA 1664 04/13/10 13:18 Oil & Grease ND ---5.00 mg/l 1x ---------LCS (10D0357-BS1) Extracted: 04/13/10 10:30 Oil & Grease EPA 1664 46.0 46.0 100% (78-114) 04/13/10 13:18 ---5.00 1x mg/l Matrix Spike (10D0357-MS1) QC Source: PTC1005-01 Extracted: 04/13/10 10:30 Oil & Grease EPA 1664 33.3 5.56 2.32 33.3 92.9% (78-114) 04/13/10 13:18 RL4 --mg/l lx Matrix Spike Dup (10D0357-MSD1) Extracted: 04/13/10 10:30 QC Source: PTC1005-01 Oil & Grease EPA 1664 18.7 2,32 18.7 87.4% (78-114) 56.2% (18) 04/13/10 13:18 R2, RL4 5.26 mg/l 1x ---

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Republic Services-South Me 2001 Washington St Oregon City, OR 97045	etro			Project Nan Project Nun Project Mar	nber:	Storm [none] Kelly H	water Dis errod	scharge	•				Report Crea 04/13/10 1	
	Total Me	tals per EPA		i <b>es Metho</b> 'estAmeric		이 가슴 지 않는다.	ry Qualit	y Cont	rol R	esults				
QC Batch: 10D0022	Water P	reparation M	ethod: E	PA 200/30	05									-
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10D0022-BLK1)								Exti	acted:	04/01/10 11	:31			
Copper	EPA 200.8	ND		0.00200	mg/l	1x							04/07/10 08:29	
Lead		ND		0.00100	**	U							Ħ	
Zinc	•	ND		0.0100	•									
LCS (10D0022-BS1)								Extr	acted:	04/01/10 11	:31			
Copper	EPA 200.8	0.0858		0.00200	mg/l	lx		0,100	85.8%	(85-115)	-		04/07/10 08:37	
Lead	н	0.0861		0.00100	u	"			86.1%	н			*	
Zinc	н	0.0858		0.0100	"			"	85.8%	"			"	
Duplicate (10D0022-DUP1)				QC Source:	PTC0924	-01		Extr	acted:	04/01/10 11	:31			
Copper	EPA 200.8	ND	,	0.00200	mg/l	lx	ND				3.24%	(20)	04/07/10 10:03	
Lead	"	ND		0.00100	*	м	ND						•	
Zinc		0.0345	·	0.0100		**	0.0338				2.05%	, "	"	
Matrix Spike (10D0022-MS1)				QC Source:	PTC0924	-01		Extr	acted:	04/01/10 11	:31			
Copper	EPA 200.8	0.0851	·	0.00200	mg/l	1 <b>x</b>	0.000910	0.100	84.2%	(75-125)			04/07/10 10:11	
Lead	и	0.0871		0.00100	**	u	ND		87.1%					
Zinc	u	0,119		0.0100	11	"	0.0338	*	85.2%	(70-130)				
Matrix Spike (10D0022-MS2)				QC Source:	PTC093	-01		Exti	acted:	04/01/10 11	:31			
Copper	EPA 200.8	0.0906		0.00200	mg/l	lx	0.00650	0.100	84.1%	(75-125)			04/07/10 10:58	
Lead		0.102		0.00100		•	0.0128		89.1%	н			н	
Zinc	•	0.151		0.0100	"	"	0.0654		85.7%	(70-130)		<b></b>		

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

 Republic Services-South Metro
 Project Name:
 Stormwater Discharge

 2001 Washington St
 Project Number:
 [none]
 Report Created:

 Oregon City, OR 97045
 Project Manager:
 Kelly Herrod
 04/13/10 16:27

 Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results

QC Batch: 10D0065	Water Preparation Method: Wet Chem												
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt R	% (Limi EC	is) % RPD	(Limit	s) Analyzed	Notes
Blank (10D0065-BLK1)								Extract	ed: 04/02/1	0 10:23			1
Total Suspended Solids	SM 2540D	ND		10.0	mg/l	lx						04/02/10 12:40	
LCS (10D0065-BS1)								Extract	ed: 04/02/1	) 10: <b>23</b>			-
Total Suspended Solids	SM 2540D	60.0		10.0	mg/l	lx		60.0 10	00% (80-1)	20)		04/02/10 12:40	
Duplicate (10D0065-DUP1)			1	QC Source:	PTC0907-	02		Extract	ed: 04/02/1	) 10:23			
Total Suspended Solids	SM 2540D	10.0		10.0	mg/l	lx	10.0			0.00	% (20)	04/02/10 12:40	

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Brian Cone, Industrial Services Manager

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

14.2

THE LEADER IN ENVIRONMENTAL TESTING

Republic Services-South Metro	Project Name:	Stormwater Discharge	
2001 Washington St	Project Number:	[none]	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	04/13/10 16:27

#### Notes and Definitions

#### Report Specific Notes:

- M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS).
- R2 The RPD exceeded the acceptance limit.
- RL4 Reporting limit raised due to insufficient sample volume.

#### Laboratory Reporting Conventions:

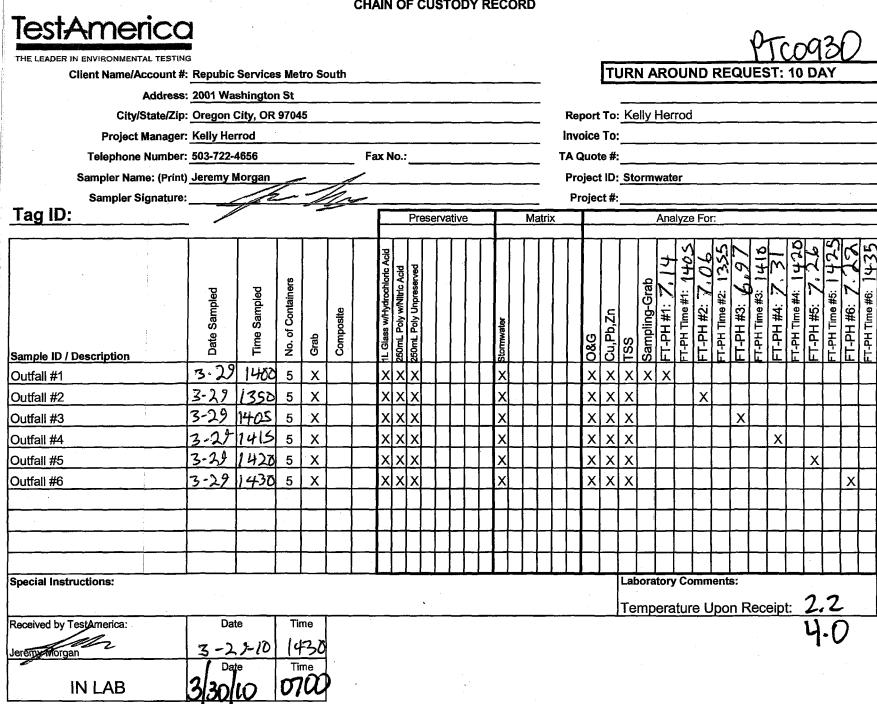
DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD	-	RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL		METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Signature Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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TestAmerica Portland Sample Receiving Checklis	st .
	3/30/100700
Time Zone:	
Unpacking Checks: Cooler #(s): Temperatures: 2-2 4-0 Digi #1 Digi #2 IR Gun Digi #1 Digi #2 IR Gun Digi #1 Digi #2 IR Gun	Temperature out of Range: Not enough or No Ice Ice Melted W/in 4 Hrs of collection Other:
N/A Yes No	Initials:
1. If ESI client, were temp blanks received? If no, doc	cument on NOD.
2. Cooler Seals intact? (N/A if hand delivered) if no, o	document on NOD.
3. Chain of Custody present? If no, document on NO	D.
$\square$ 4. Bottles received intact? If no, document on NOD.	
5. Sample is not multiphasic? If no, document on NC	DD.
6. Proper Container and preservatives used? If no, do	
□ □ 7. pH of all samples checked and meet requirements?	If no, document on NOD.
2 8. Cyanide samples checked for sulfides and meet req	uirements? If no, notify PM.
2 9. HF Dilution required?	
<ul> <li>In the second sec</li></ul>	
□ 12. Is the "Sampled by" section of the COC completer	
□ □ 13. Were VOA/Oil Syringe samples without headspa	
☐ ☐ 14. Were VOA vials preserved? ☐HCl ☐Sodium T.	
□ □ 15. Did samples require preservation with sodium thic	
☐ ☐ 16. If yes to #15, was the residual chlorine test negati	ve? If no, document on NOD.
I I7. Are dissolved/field filtered metals bottles sedimer	
<ul> <li>Image: Instant state in the sufficient volume provided for client requested no, document on NOD and contact PM before proceed in 19. Are analyses with short holding times received in</li> </ul>	ding.
20. Was Standard Turn Around (TAT) requested?	
$\square$ 21. Receipt date(s) < 48 hours past the collection date	(s)? If no, notify PM.
/	

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F:\Sample\_Receiving\Receiving\_Documents\Forms (effective 3/16/09)

ig\_rocuments a orms (ener

TestAmerica Portland Sample Receiving Checklist
Work Order #: MTCO930
Login Checks: Initials
N/A Yes No
22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM.
Z I 23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If
no, document on NOD and contact PM.
24. Did the chain of custody include "received by" and "relinquished by" signatures,
dates and times?
25. Were special log in instructions read and followed?
26. Were tests logged checked against the COC?
27. Were rush notices printed and delivered?
28. Were short hold notices printed and delivered?
29. Were subcontract COCs printed?
2 30. Was HF dilution logged?
Labeling and Storage Checks: Initials:
N/A Yes No
Z 31. Were the subcontracted samples/containers put in Sx fridge?
✓ ☐ 32. Were sample bottles and COC double checked for dissolved/filtered metals?
33. Did the sample ID, Date, and Time from label match what was logged?
34. Were Foreign sample stickers affixed to each container and containers stored in
foreign fridge?
2. 35. Were HF stickers affixed to each container, and containers stored in Sx fridge?
2 36. Was an NOD for created for noted discrepancies and placed in folder?
Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).



**Client**: Republic Services Metro South Site: Oregon City / Outfalls 001-006 Project: Storm water **Sampling Documentation Form** 

Sampler: Jeremy Morgan Date: <u>3 - 29-18</u> Time: <u>134</u>0

# Sample Matrix: Water

# Sampling Method: Grab

Grab Sampling Equipment: ISCO:	Other:
001 Grab Time: <u>1400</u>	
002 Grab Time:350	
003 Grab Time: 1465	
004 Grab Time: 1415	
005 Grab Time: 1420	
006 Grab Time: 1438	

#### Field Data:

PH Meter: Thermo Scientific Orion 3 Star
001 PH: 7, 14 Time Taken: 1405
002 PH: 7,06 Time Taken: 13,55
003 PH: 6.97 Time Taken: 14/10
004 PH: 7,31 Time Taken: 1420
005 PH: 7,26 Time Taken: 1425
006 PH: 7,22 Time Taken: 1435
PH Calibration-7.00 buffer reading: 7,00
Slope: 103.3
PH Buffer 4:91(00Ll
PH Buffer 7: 9110062
PH Buffer 10: 8110063

Field Con	ditions:					
Weather:	Sunny	Partly cloudy	Cloudy	Snowing		
Rainfall:	🖈 Heavy	Continuous	□ Intermitten	Light	□ None	
		· · · · · · · · · · · · · · · · · · ·				
Sample Cl	haracteristics	;				
Color:	Odo	r: TS	S: 425			
Sediment:		Foam:				

### **Observations and Comments:**

# **TestAmerica**

THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Portland 9405 SW Nimbus Ave. Beaverton, OR 97008 Tel: (503) 906-9200

TestAmerica Job ID: PTK0280 TestAmerica Sample Delivery Group: PTK0280 Client Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736 Client Project Description: Stormwater Discharge

#### For:

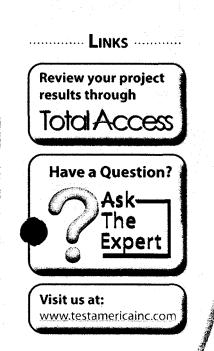
Republic Services-South Metro 2001 Washington St Oregon City, OR 97045

Attn: Kelly Herrod

Brian L Come

Authorized for release by: 11/22/2010 11:41 AM

Brian Cone Industrial Services Manager brian.cone@testamericainc.com



This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

# **Table of Contents**

Cover Page	1
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Sample Summary	3
	4
Client Sample Results	5
QC Sample Results	7
Certification Summary	
Chain of Custody	10

Sample Summary

Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

aa-Sample ID	Client Sample ID	Matrix	Collected	Received
PTK0280-01	Outfall #1	Water	11/06/10 20:30	11/08/10 08:55
PTK0280-02	Outfall #4	Water	11/06/10 20:45	11/08/10 08:55
PTK0280-03	Outfall #5	Water	11/06/10 20:50	11/08/10 08:55
PTK0280-04	Outfall #7	Water	11/06/10 20:40	11/08/10 08:55

# **Qualifier Definition/Glossary**

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

TestAmerica Job ID: PTK0280 SDG: PTK0280

Glossary

Glossary	Glossary Description
\$	Listed under the "D" column to designate that the result is reported on a dry weight basis.

# Analytical Data

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

TestAmerica Job ID: PTK0280 SDG: PTK0280

2040220---C22

00.030360300

Comparents

ate Collected: 11/06/10 20:30 ate Received: 11/08/10 08:55							Lad Samp	Die ID: PTK02 Matrix	
Method: EPA 200.8 - Total Metals pe		Parias Math							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
Copper	0.00970		0.00200		mg/l		11/11/10 09:41	11/13/10 17:41	
Lead	0.0281		0.00100		mg/l		11/11/10 09:41	11/13/10 17:41	
Zinc	0.115		0.0100		mg/l		11/11/10 09:41	11/13/10 17:41	
	0.110		0.0100						
Method: SM 2540D - Conventional C Analyte		arameters p Qualifier	er Standard M RL	ethods MDL	l l mit	D	Prepared	Analyzed	Dil F
Total Suspended Solids	59.0		10.0		mg/l		11/12/10 11:55	11/12/10 17:35	
Method: EPA 1664A - Oil and Greas Analyte	-	per EPA Mei Qualifier		84701	11	<b>D</b>	Dramarad	Analyzed	Dil F
Oil & Grease	ND	Quaimer		MDL	mg/l	D	Prepared 11/16/10 16:24	Analyzed 11/18/10 13:35	
	NU		5.00		mg/i		11/10/10 10.24	10101013.33	
Method: SM 4500-H B - Convention						_			
Analyte		Qualifier		MDL		D	Prepared	Analyzed	Dil I
рН	7.58				pH Units		11/06/10 20:35	` 11/06/10 20: <b>4</b> 0	
lient Sample ID: Outfall #4			<u>.                                    </u>				l ah Samr	ole ID: PTK0	280-
ate Collected: 11/06/10 20:45							Lub Guin	Matrix	
ate Received: 11/08/10 08:55									
			······································						
Method: EPA 200.8 - Total Metals pe	er EPA 200	Series Meth	ods						
alyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil I
opper	0.0140		0.00200		mg/l		11/11/10 09:41	11/13/10 17:52	
Lead	0.0215		0.00100		mg/l		11/11/10 09:41	11/13/10 17:52	
Zinc	0.109		0.0100		mg/l		11/11/10 09:41	11/13/10 17:52	
Method: SM 2540D - Conventional (	homistry P	arameters n	or Standard M	othode ·					
		Qualifier		culous	Unit	D	Prepared	Analyzed	
Analvte	Result		RL	MDL	•			Andivzeu	Dil
Analyte Total Suspended Solids			RL	MDL	mg/l		11/12/10 11:55	11/12/10 17:35	Dill
	17.0			MDL	mg/l		11/12/10 11:55		Dil F
	17.0		10.0	MDL	mg/l		11/12/10 11:55		Dill
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte	17.0 e Analysis		10.0		mg/l Unit		Prepared	11/12/10 17:35 Analyzed	
Total Suspended Solids Method: EPA 1664A - Oil and Greas	17.0 e Analysis	per EPA Me	10.0 thod 1664		-			11/12/10 17:35	
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte	17.0 e Analysis Result ND	per EPA Me Qualifier	10.0 thod 1664 RL 5.00	MDL	Unit mg/l		Prepared	11/12/10 17:35 Analyzed	
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease	17.0 e Analysis Result ND al Chemistr	per EPA Me Qualifier	10.0 thod 1664 RL 5.00	MDL	Unit mg/l		Prepared	11/12/10 17:35 Analyzed	Dil I
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention	17.0 e Analysis Result ND al Chemistr	per EPA Me Qualifier y Parameter	10.0 thod 1664 <u>RL</u> 5.00 s per Standard	MDL	Unit mg/l	D	Prepared 11/16/10 16:24	11/12/10 17:35 Analyzed 11/18/10 13:35	Dil I
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH	17.0 e Analysis Result ND al Chemistr Result	per EPA Me Qualifier y Parameter	10.0 thod 1664 <u>RL</u> 5.00 s per Standard	MDL	Unit mg/l S Unit	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55	Dil f
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5	17.0 e Analysis Result ND al Chemistr Result	per EPA Me Qualifier y Parameter	10.0 thod 1664 <u>RL</u> 5.00 s per Standard	MDL	Unit mg/l S Unit	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 Die ID: PTK02	
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5 rate Collected: 11/06/10 20:50	17.0 e Analysis Result ND al Chemistr Result	per EPA Me Qualifier y Parameter	10.0 thod 1664 <u>RL</u> 5.00 s per Standard	MDL	Unit mg/l S Unit	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55	Dil 1 Dil 1
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5	17.0 e Analysis Result ND al Chemistr Result	per EPA Me Qualifier y Parameter	10.0 thod 1664 <u>RL</u> 5.00 s per Standard	MDL	Unit mg/l S Unit	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 Die ID: PTK02	Dil F Dil F 280-(
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5 rate Collected: 11/06/10 20:50	17.0 e Analysis Result ND al Chemistr Result 7.88	per EPA Me Qualifier y Parameter Qualifier	10.0 thod 1664 RL 5.00 s per Standard RL	MDL	Unit mg/l S Unit	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 Die ID: PTK02	Dil f Dil f 280-(
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5 rate Collected: 11/06/10 20:50 rate Received: 11/08/10 08:55	17.0 e Analysis Result ND al Chemistr Result 7.88 er EPA 200	per EPA Me Qualifier y Parameter Qualifier	10.0 thod 1664 RL 5.00 s per Standard RL	MDL I Method MDL	Unit mg/l S Unit	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 Die ID: PTK02 Matrix Analyzed	Dil f Dil f 280-(
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5 ate Collected: 11/06/10 20:50 ate Received: 11/08/10 08:55 Method: EPA 200.8 - Total Metals po	17.0 e Analysis Result ND al Chemistr Result 7.88 er EPA 200	per EPA Me Qualifier y Parameter Qualifier Series Meth	10.0 thod 1664 RL 5.00 s per Standard RL	MDL I Method MDL	Unit mg/l S Unit pH Units	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50 Lab Samp	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 Die ID: PTK02 Matrix	Dil 1 Dil 1 280-1 :: Wa
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5 rate Collected: 11/06/10 20:50 rate Received: 11/08/10 08:55 Method: EPA 200.8 - Total Metals po Analyte	17.0 e Analysis Result ND al Chemistr Result 7.88 er EPA 200 Result	per EPA Me Qualifier y Parameter Qualifier Series Meth	10.0 thod 1664 RL 5.00 s per Standard RL	MDL I Method MDL	Unit mg/I S Unit pH Units	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50 Lab Samp Prepared	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 Die ID: PTK02 Matrix Analyzed	Dil 1 Dil 1 280-1 :: Wa
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5 vate Collected: 11/06/10 20:50 vate Received: 11/08/10 08:55 Method: EPA 200.8 - Total Metals per Analyte Copper	17.0 e Analysis Result ND al Chemistr Result 7.88 er EPA 200 Result 0.00249	per EPA Me Qualifier y Parameter Qualifier Series Meth	10.0 thod 1664 <u>RL</u> 5.00 s per Standard RL 0.00200	MDL I Method MDL	Unit mg/l S Unit pH Units Unit mg/l	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50 Lab Samp Prepared 11/11/10 09:41	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 DIE ID: PTK02 Matrix Analyzed 11/13/10 17:57	Dil 1 Dil 1 280-1 :: Wa
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5 nate Collected: 11/06/10 20:50 nate Received: 11/08/10 08:55 Method: EPA 200.8 - Total Metals per Analyte Copper Lead Zinc	17.0 e Analysis Result ND al Chemistr Result 7.88 er EPA 200 Result 0.00249 0.0104 0.0650	per EPA Mer Qualifier y Parameter Qualifier Series Meth Qualifier	10.0 thod 1664 RL 5.00 s per Standard RL 0.00200 0.00100 0.0100	MDL I Method MDL	Unit mg/l S Unit pH Units Unit mg/l mg/l	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50 Lab Samp Prepared 11/11/10 09:41 11/11/10 09:41	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 DIE ID: PTK02 Matrix Analyzed 11/13/10 17:57 11/13/10 17:57	Dil 1 Dil 1 280-1 :: Wa
Total Suspended Solids Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: SM 4500-H B - Convention Analyte pH Client Sample ID: Outfall #5 nate Collected: 11/06/10 20:50 nate Received: 11/08/10 08:55 Method: EPA 200.8 - Total Metals per Analyte Copper Lead	17.0 e Analysis Result ND al Chemistr Result 7.88 er EPA 200 Result 0.00249 0.0104 0.0650 Chemistry P	per EPA Mer Qualifier y Parameter Qualifier Series Meth Qualifier	10.0 thod 1664 RL 5.00 s per Standard RL 0.00200 0.00100 0.0100	MDL I Method MDL MDL	Unit mg/l S Unit pH Units Unit mg/l mg/l	D	Prepared 11/16/10 16:24 Prepared 11/06/10 20:50 Lab Samp Prepared 11/11/10 09:41 11/11/10 09:41	11/12/10 17:35 Analyzed 11/18/10 13:35 Analyzed 11/06/10 20:55 DIE ID: PTK02 Matrix Analyzed 11/13/10 17:57 11/13/10 17:57	Dil 1 Dil 1 280-1 :: Wa

	of 2 PO#	1997736						SDG P	160200
Client Sample ID: Outfall #5							Lab Samp	ole ID: PTK02	280-0
Date Collected: 11/06/10 20:50								Matrix	: Wate
Date Received: 11/08/10 08:55				·					
_ Method: EPA 1664A - Oil and Grease A	Analvsis i	per EPA Met	thod 1664						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Oil & Grease	ND		5.00		mg/l		11/16/10 16:24	11/18/10 13:35	
_ Method: SM 4500-H B - Conventional C	Chemistr	/ Parameter	s per Standard	l Method	s				
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
pH	7.60				pH Units		11/06/10 20:55	11/06/10 21:00	
Client Sample ID: Outfall #7								DIE ID: PTK02 Matrix	: Wate
Jate Received: 11/08/10 08:55									
		<b>.</b>						·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	
Method: EPA 200.8 - Total Metals per E Analyte		Series Meth Qualifier	ods RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: EPA 200.8 - Total Metals per E				MDL	Unit mg/l	D	Prepared 11/11/10 09:41	Analyzed	Dil Fa
Method: EPA 200.8 - Total Metals per E Analyte	Result		RL	MDL		D			Dil Fa
Analyte Copper	Result 0.00579		RL 0.00200	MDL	mg/l	<u>D</u>	11/11/10 09:41	11/13/10 18:03	Dil Fa
Method: EPA 200.8 - Total Metals per E Analyte Copper Lead Zinc	Result 0.00579 0.00847 0.0502	Qualifier	RL 0.00200 0.00100 0.0100		mg/l mg/l	D	11/11/10 09:41 11/11/10 09:41	11/13/10 18:03 11/13/10 18:03	Dil Fa
Method: EPA 200.8 - Total Metals per E Analyte Copper Lead	Result 0.00579 0.00847 0.0502 emistry P	Qualifier	RL 0.00200 0.00100 0.0100	ethods	mg/l mg/l	D	11/11/10 09:41 11/11/10 09:41	11/13/10 18:03 11/13/10 18:03	
Method: EPA 200.8 - Total Metals per E Analyte Copper Lead Zinc Method: SM 2540D - Conventional Che	Result 0.00579 0.00847 0.0502 emistry P	Qualifier	RL 0.00200 0.00100 0.0100 Per Standard M	ethods	mg/l mg/l mg/l		11/11/10 09:41 11/11/10 09:41 11/11/10 09:41 11/11/10 09:41	11/13/10 18:03 11/13/10 18:03 11/13/10 18:03	Dil Fa Dil Fa
Method: EPA 200.8 - Total Metals per E Analyte Copper Lead Zinc Method: SM 2540D - Conventional Che Analyte	Result 0.00579 0.00847 0.0502 emistry P Result 24.0	Qualifier arameters p Qualifier	RL           0.00200           0.00100           0.0100           0.0100           Per Standard M           RL           10.0	ethods	mg/l mg/l mg/l Unit		11/11/10 09:41 11/11/10 09:41 11/11/10 09:41 <b>Prepared</b>	11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 Analyzed	
Method: EPA 200.8 - Total Metals per E Analyte Copper Lead Zinc Method: SM 2540D - Conventional Che Analyte Total Suspended Solids	Result           0.00579           0.00847           0.0502           emistry P           Result           24.0           Analysis	Qualifier arameters p Qualifier	RL           0.00200           0.00100           0.0100           0.0100           Per Standard M           RL           10.0	ethods MDL	mg/l mg/l mg/l Unit		11/11/10 09:41 11/11/10 09:41 11/11/10 09:41 <b>Prepared</b>	11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 Analyzed	
Method: EPA 200.8 - Total Metals per E Analyte Copper Lead Zinc Method: SM 2540D - Conventional Che Analyte Total Suspended Solids Method: EPA 1664A - Oil and Grease A	Result           0.00579           0.00847           0.0502           emistry P           Result           24.0           Analysis	Qualifier arameters p Qualifier per EPA Me	RL           0.00200           0.00100           0.0100           0.0100           Per Standard M           RL           10.0           thod 1664	ethods MDL	mg/l mg/l mg/l Unit mg/l	D	11/11/10 09:41 11/11/10 09:41 11/11/10 09:41 <b>Prepared</b> 11/12/10 11:55	11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 <b>Analyzed</b> 11/12/10 17:35	Dil Fa
Method: EPA 200.8 - Total Metals per E Analyte Copper Lead Zinc Method: SM 2540D - Conventional Che Analyte Total Suspended Solids Method: EPA 1664A - Oil and Grease A Analyte Oil & Grease Method: SM 4500-H B - Conventional C	Result 0.00579 0.00847 0.0502 emistry P Result 24.0 Analysis Result ND	Qualifier arameters p Qualifier per EPA Mer Qualifier y Parameter	RL           0.00200           0.00100           0.01	ethods MDL MDL	mg/l mg/l Unit mg/l Unit mg/l	D	11/11/10 09:41 11/11/10 09:41 11/11/10 09:41 <b>Prepared</b> 11/12/10 11:55 <b>Prepared</b> 11/16/10 16:24	11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 <b>Analyzed</b> 11/12/10 17:35 <b>Analyzed</b> 11/18/10 13:35	Dil Fa Dil Fa
Method: EPA 200.8 - Total Metals per E Analyte Copper Lead Zinc Method: SM 2540D - Conventional Che Analyte Total Suspended Solids Method: EPA 1664A - Oil and Grease A Analyte Oil & Grease	Result 0.00579 0.00847 0.0502 emistry P Result 24.0 Analysis Result ND	Qualifier arameters p Qualifier per EPA Me Qualifier	RL           0.00200           0.00100           0.01	ethods MDL MDL	mg/l mg/l Unit mg/l Unit mg/l	D	11/11/10 09:41 11/11/10 09:41 11/11/10 09:41 <b>Prepared</b> 11/12/10 11:55 <b>Prepared</b>	11/13/10 18:03 11/13/10 18:03 11/13/10 18:03 <b>Analyzed</b> 11/12/10 17:35 <b>Analyzed</b>	Dil Fi

# TestAmerica Job ID: PTK0280

2,222,2525,25745,0

**Beau** 

	Analytical	Data
ro		

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

# hod: EPA 200.8 - Total Metals per EPA 200 Series Methods

Lab Sample ID: 10K0396-BLK1									C	lient Sa	mple ID: 10K0		
Matrix: Water											Prep T	уре	e: tota
Analysis Batch: 10K0396											Prep Batch: 10	)K0;	396_I
	B	lank Blani	ĸ										
Analyte	R	esult Qual	fier	_	RL N	IDL Unit		D		Prepare			Dil Fa
Copper		ND		0.00	200	mg/l			11/11	1/10 09:4	1 11/13/10 17:18	3	
Lead		ND		0.00	100	mg/l			11/11	1/10 09:4	1 11/13/10 17:18	3	
Zinc		ND		0.0	100	mg/l			11/11	1/10 09:4	1 11/13/10 17:18	3	
Lab Sample ID: 10K0396-BS1									(	Client S	ample ID: 10K	039	6-BS
Matrix: Water											Prep T	уре	: tota
Analysis Batch: 10K0396				Spike	LCS	LCS					Prep Batch: 10 % Rec.	)K0:	396_F
Analyte				Added		Qualifier	Unit		D	% Rec	Limits		
Copper				0.100	0.0989		mg/l			98.9	85 - 115		
Lead				0.100	0,101		mg/l			101	85 - 115		
Zinc				0.100	0.0953		mg/l			95.3	85 - 115		
				0.100	0.0000		ing/i			00.0	00-110		
Lab Sample ID: 10K0396-MS1										Clie	nt Sample ID:		
Matrix: Water											Prep T		
Analysis Batch: 10K0396											Prep Batch: 10	)K0:	396_1
	Sample	•		Spike	Matrix Spike						% Rec.		
Analyte		Qualifier		Added		Qualifier			D	% Rec	Limits		
Copper	0.00970			0.100	0.108		mg/l			98.6	75 - 125		
Lead	0.0281			0.100	0.134		mg/l			106	75 - 125		
	0.115			0.100	0.212		mg/l			96.1	70 - 130		
Lab Sample ID: 10K0396-MS2										Client	Sample ID: PT	K03	3 <b>19-0</b> 1
Matrix: Water											Prep T	уре	e: tota
Analysis Batch: 10K0396											Prep Batch: 10	)K0:	396_F
	Sample	Sample		Spike	Matrix Spike	Matrix S	pike				% Rec.		
Analyte	Result	Qualifier		Added	Result	Qualifier	Unit		D	% Rec	Limits		
Copper	0.00834			0.100	0.106		mg/l			97.7	75 - 125		
Lead	0.00193			0.100	0.104		mg/l			102	75 - 125		
Zinc	0.211			0.100	0.301		mg/l			90.2	70 - 130		
Lab Sample ID: 10K0396-DUP1										Client	Sample ID: PT	K02	279-01
Matrix: Water											Prep T	уре	e: tota
Analysis Batch: 10K0396											Prep Batch: 10	)K0	396_F
	Sample	Sample			Duplicate	Duplicat	e						RPE
Analyte	Result	Qualifier			Result	Qualifier	Unit		D		R	PÐ	Limi
Copper	0.00504				0.00517		mg/l				2.	57	2
Lead	0.00500				0.00492		mg/l				1.	75	2
Zinc	0.0685				0.0698		mg/l				1	85	20

Lab Sample ID: 10K0449-BLK1							Client Sam	ple ID: 10K044	9-BLK1
Matrix: Water						-		Prep Typ	e: total
Analysis Batch: 10K0449							P	rep Batch: 10K	0449_P
	Blank	Blank							
alyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tal Suspended Solids	ND		10.0		mg/l		11/12/10 11:55	11/12/10 17:35	1

# **Quality Control Data**

## Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods (Continued)

Lab Sample ID: 10K0449-BS1							(	Client Sa	ample ID: 10	K044	9-BS1
Matrix: Water									Prep	Туре	: total
Analysis Batch: 10K0449								F	Prep Batch:	10K04	449_P
			Spike	LCS	LCS				% Rec.		
Analyte			Added	Result	Qualifier	Unit	D	% Rec	Limits		
Total Suspended Solids			60.0	63.0		mg/l		105	80 - 120		
Lab Sample ID: 10K0449-DUP1								Client S	Sample ID: I	PTK02	288-01
Matrix: Water									Prep	Туре	: total
Analysis Batch: 10K0449								F	Prep Batch:	10K04	449_P
	Sample	Sample		Duplicate	Duplicate						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Total Suspended Solids	ND			ND		mg/l		<u> </u>			20

#### Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Lab Sample ID: 10K0557-BLK1									C	lient Sar	nple ID: 10K	
Matrix: Water										-	•	Type: tota
Analysis Batch: 10K0557	_									·	Prep Batch: 1	IOK0557_F
	_	lank Blank										
Analyte	R	esult Qualifier		RL	M	DL Unit		D		Prepared	-	
Oil & Grease		ND		5.00		mg/i			11/1	5/10 16:24	<b>11/17/10 17</b> ::	20
Lab Sample ID: 10K0557-BS1										Client Sa	ample ID: 10	K0557-BS <sup>2</sup>
Matrix: Water											Prep	Type: tota
Analysis Batch: 10K0557										1	Prep Batch: 1	I0K0557_I
			Spike		LCS	LCS					% Rec.	
Analyte			Added		Result	Qualifier	Unit		D	% Rec	Limits	
Oil & Grease			40.0		38.5		mg/l			96.2	78 - 114	
Lab Sample ID: 10K0557-MS1										Client	Sample ID: P	тко283-02
Matrix: Water											Prep	Type: tota
Analysis Batch: 10K0557										1	Prep Batch: *	IOK0557_F
	Sample	Sample	Spike	Matri	k Spike	Matrix Spi	ke				% Rec.	
Analyte	Result	Qualifier	Added	•	Result	Qualifier	Unit		D	% Rec	Limits	
Oil & Grease	0.190		40.0		32.9		mg/l			81.7	78 - 114	
Lab Sample ID: 10K0557-MSD1										Client	Sample ID: P	тко283-02
Matrix: Water											Prep	Type: tota
Analysis Batch: 10K0557										1	Prep Batch: *	IOK0557_F
	Sample	Sample	Spike	Matrix Spi	ke Dup	Matrix Spi	ke Dup				% Rec.	RPI
Analyte	Result	Qualifier	Added		Result	Qualifier	Unit		D	% Rec	Limits	RPD Limi
Oil & Grease	0.190		40.0		33.6		mg/l			83.6	78 - 114	2.29 1

## **Certification Summary**

Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 1 of 2 PO# 1997736

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Portland	Alaska	Alaska UST	10	UST-012	12/26/10
TestAmerica Portland	Alaska	State Program	10	OR00040	04/21/11
TestAmerica Portland	California	State Program	9	2597	09/30/11
TestAmerica Portland	Oregon	NELAC Primary AB	10	OR100021	01/09/11
TestAmerica Portland	Washington	State Program	10	C586	06/23/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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Client Name/Account #:	Repubic	Services	Metr	o So	uth				<b>s</b> .	3 <b></b>				-	्र •		TU	RN	AF	201	JNE	)	EQ	UES	ST:	10	DA	<u>Y</u>	
Address:	2001 Wa	shington	St		<u>.</u>								·	_			• .	· · · · ·											
City/State/Zip:	Oregon (	city, OR S	97045	;										• 1 - 1	Re	port	To:	Ke	ly F	lerr	od								
Project Manager:	Kelly Her	rod												•	Inv	oice	To:								\$				
Telephone Number:	503-722-	4656				Fax N	o.:						•	_	TA (	Quot	e #:	_									_		
Sampler Name: (Print)	Jeremy N	lorgan	•											_		oject													
Sampler Signature:		/		2	~								_	-	Ρ	rojec	t #:												
Tag ID:	. – –					F		Pre	serva	tive			M	atrix		-				Analy	yze F	or:	2				7		
Sample ID / Description Outfall #1 Outfall #4 Outfall #5 Outfall #7	14 45	202 202 202 202 202 202 202 202 202 202		X X Ciab	Composite	x x	X X X 250mL Poly wiNitric Acid	x x				X X X X Stormwater				x x x	x x		X Sampling-Grab	-							2045		
														Π										].					
	1						Γ	Π	Τ	Π	Τ	Π		Π	T									ŀ					
Special Instructions:				<u>.</u>				k									са .				Con ture			Re	cei	pt:	3.	3	
Received by TestAmerica:	1	ate		ime										_											·		Ц.	Ю	
Jeremy Morgan	<u> </u>	- [1	20		4				к.:											· •.									
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11/22/2010

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TestAmerica	
THE LEADER IN ENVIRONMENTAL TESTING	
Portland Sample Control Checklist	
Work Order #: 11K0280 Date/Time Received: 11/8/10 0855	
Client Name: REPUBLIC Services	
Project Name: Stormwater	
Time Zone:	
Unpacking Checks: , Temperature out of Range:	
Cooler (s):	
Temperature (s): 3-3       1/-1/2            Ice Melted         Digi #1       Digi #2       IR & fund	
Contraction     Contracti	
RaytekOther:	
Ice used: (circle one) GEL LOOSE BLUE OTHER: Initials:////	
N/A Yes No	
☐ ☐ 1. If ESI client, were temp blanks received? If no, document on NOD.	
2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.	
<ul> <li>3. Chain of Custody present? Along with "received by" &amp; "relinquished by" signatures with date &amp; time? If no, document on NOD.</li> <li>4. Bottles received intact? If no, document on NOD.</li> </ul>	
5. Sample is not multiphasic? If no, document on NOD.	
6. Sampler name/signature documented on COC?	
7. Proper Container and preservatives used? If no, document on NOD.	
□ 8. pH of all samples checked and meet requirements? If no, document on NOD.	
✓ □ 9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.	
□ □ 10. HF Dilution required?	
11. Sufficient volume provided for all analysis and requested MS/MSD? If no,	
document on NOD and consult PM before proceeding.	
I 12. Did chain of custody agree with samples received? If no, document on NOD,	
<ul> <li>Image: Interpretation of the state of the st</li></ul>	
15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.	
In the section of	
$\square$ $\square$ 17. Are analyses with short holding times received in hold?	
Checklist Paviewodt Log in initials	
Checklist Reviewed: Log-in initials: Labeler initials:VV	

9405 SW Nimbus Ave, Beaverton OR 97008 tel 503.906.9200 fax 503.906.9210 www.testamericainc.com



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**Client**: Republic Services Metro South Site: Oregon City / Outfalls 001,004,005,007 Project: Storm water **Sampling Documentation Form** 

Sampler: Jeremy Morgan Date: <u>||-6-(0</u> Time: <del>082-02.0</del>

Sample Matrix: Water

# Sampling Method: Grab

Grab Sampling Equipment: ISCO:	Öther:	
001 Grab Time: 2030		•
004 Grab Time: 2045		
005 Grab Time: 20 50		
007 Grab Time: 2040		

P2 - 1		D-4-		
<b>H</b> Ie	a	Data	•	
1 10	-	Luca	٠	

Rainfall:

PH Meter: Thermo Scientific Orion 3 Star	
001 PH:	
004 PH: 7 88 Time Taken: 2050	
005 PH: 7-60 Time Taken: 2035	
007 PH: 7,22 Time Taken: 2045	
PH Calibration-7.00 buffer reading: 7,06	
Slope:	
PH Buffer 4:	
PH Buffer 7: 91(0062	
PH Buffer 10: 9(10063	

Field Conc	litions:			
Weather:	□ Sunnv	□ Partly cloudy	n Cloudy n Snowing	

-Continuous

Intermittent Light None

...

Sample Chara	cteristics		
Color:	_ Odor:	TSS:	
Sediment:	Foam:		

#### **Observations and Comments:**

□ Heavy

1.1



# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica Portland 9405 SW Nimbus Ave. Beaverton, OR 97008 Tel: (503) 906-9200

TestAmerica Job ID: PTK0851 TestAmerica Sample Delivery Group: PTK0851 Client Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736 Client Project Description: Stormwater Discharge

#### For:

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045

Attn: Kelly Herrod

amosa Fran

Authorized for release by: 12/9/2010 12:02 PM Vanessa Frahs Project Manager Vanessa.Frahs@testamericainc.com

Designee for

Brian Cone Industrial Services Manager brian.cone@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Job ID: PTK0851

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Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

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## **Sample Summary**

#### TestAmerica Job ID: PTK0851

Client: Republic Services-South Metro roject/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

ab Sample ID	Client Sample ID	Matrix	Collected	Received
PTK0851-01	Outfall #1	Water	11/22/10 12:10	11/23/10 13:55
PTK0851-02	Outfall #4	Water	11/22/10 12:30	11/23/10 13:55
<sup>o</sup> TK0851-03	Outfall #5	Water	11/22/10 12:25	11/23/10 13:55
PTK0851-04	Outfall #7	Water	11/22/10 12:20	11/23/10 13:55

# **Qualifier Definition/Glossary**

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

#### Qualifiers

Fuels	
Qualifier	Qualifier Description
M8	The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).

#### Glossary

Glossary	Glossary Description
¢	Listed under the "D" column to designate that the result is reported on a dry weight basis.



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TestAmerica Job ID: PTK0851

SDG: PTK0851

#### **Detection Summary**

Client: Republic Services-South Metro roject/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

#### Client Sample ID: Outfall #1

TestAmerica Job ID: PTK0851 SDG: PTK0851

Lab Sample ID: PTK0851-02

Lab Sample ID: PTK0851-03

Client Sample ID: Outfall #1							Lab Sample ID: PTK0851-01						
Analyte	Result C	Qualifier	RL	MDL	Unit	Dil Fac	) Method	Prep Type					
Copper	0.0553		0.00200		mg/l	1	EPA 200.8	total					
Lead	0.155		0.00100		mg/l	1	EPA 200.8	total					
Zinc	0.537		0.0100		mg/l	1	EPA 200.8	total					
Total Suspended Solids	372		40.0		mg/l	1	SM 2540D	total					
рН	8.24				pH Units	1	SM 4500-H B	total					

#### **Client Sample ID: Outfall #4**

_									
Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
Copper	0.0539	0.00200		mg/l	1	— i	EPA 200.8	total	
Lead	0.180	0.00100		mg/l	1	I	EPA 200.8	total	
Zinc	0.560	0.0100		mg/l	1	ł	EPA 200.8	total	
Total Suspended Solids	209	22.2		mg/l	1	;	SM 2540D	total	
рН	8.47			pH Units	1	:	SM 4500-H B	total	

#### Client Sample ID: Outfall #5

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
Copper	0.0348	0.00200	mg/i	1	EPA 200.8	total
Lead	0.153	0.00100	mg/l	1	EPA 200.8	total
Zinc	0.350	0.0100	mg/l	1	EPA 200.8	total
Total Suspended Solids	147	14.3	mg/l	1	SM 2540D	total
рН	8.06		pH Units	1	SM 4500-H B	total

#### Client Sample ID: Outfall #7

Analyte Dil Fac D Method Result Qualifier RL MDL Unit Prep Type Copper 0.0406 1 EPA 200.8 total 0.00200 mg/l Lead EPA 200.8 0.0324 total 0,00100 mg/l 1 EPA 200.8 Zinc total 0.359 0.0100 mg/l 1 Total Suspended Solids SM 2540D totai 163 10.0 mg/l 1 Oil & Grease EPA 1664A 5.48 4.81 mg/l 1 total pН 7.91 pH Units SM 4500-H B total 1

# Lab Sample ID: PTK0851-04

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

#### TestAmerica Job ID: PTK0851 SDG: PTK0851

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Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Client Sample ID: Outfall #1							Lab Sa	ample ID: PTK	0851-01
Date Collected: 11/22/10 12:10								Matrix	: Water
Date Received: 11/23/10 13:55		·							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0553		0.00200		mg/l		12/01/10 10:07	12/01/10 22:57	1
Lead	0.155		0.00100		mg/l		12/01/10 10:07	12/01/10 22:57	1
Zinc	0.537		0.0100		mg/l		12/01/10 10:07	12/01/10 22:57	1
Client Sample ID: Outfall #4							Lab Sa	ample ID: PTK	0851-02
Date Collected: 11/22/10 12:30								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL.	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0539		0.00200		mg/l		12/01/10 10:07	12/01/10 23:01	1
Lead	0.180		0.00100		mg/l		12/01/10 10:07	12/01/10 23:01	1
Zinc	0.560		0.0100		mg/l		12/01/10 10:07	12/01/10 23:01	1
Client Sample ID: Outfall #5							Lab S	ample ID: PTK	0851-03
Date Collected: 11/22/10 12:25								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0348		0.00200		mg/l		12/01/10 10:07	12/01/10 23:05	1
Lead	0.153		0.00100		mg/l		12/01/10 10:07	12/01/10 23:05	1
Zinc	0.350		0.0100		mg/l		12/01/10 10:07	12/01/10 23:05	1
Client Sample ID: Outfall #7							Lab S	ample ID: PTK	0851-04
Date Collected: 11/22/10 12:20								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	0.0406		0.00200		mg/l		12/01/10 10:07	12/01/10 23:09	1
Lead	0.0324		0.00100		mg/l		12/01/10 10:07	12/01/10 23:09	1
Zinc	0.359		0.0100		mg/l		12/01/10 10:07	12/01/10 23:09	1

Client: Republic Services-South Metro roject/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

#### TestAmerica Job ID: PTK0851 SDG: PTK0851

#### Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Client Sample ID: Outfall #1			•	÷			Lab S	ample ID: PTK	0851-01
Date Collected: 11/22/10 12:10								Matrix	: Water
Date Received: 11/23/10 13:55		1.							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	372		40.0		mg/l		11/29/10 13:00	11/29/10 15:44	1
Client Sample ID: Outfall #4							Lab S	ample ID: PTK	0851-02
Date Collected: 11/22/10 12:30								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	209		22.2		mg/l		11/29/10 13:00	11/29/10 15:44	1
Client Sample ID: Outfall #5							Lab S	ample ID: PTK	0851-03
Date Collected: 11/22/10 12:25								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	Ð	Prepared	Analyzed	Dil Fac
Total Suspended Solids	147		14.3		mg/l		11/29/10 13:00	11/29/10 15:44	1
Client Sample ID: Outfall #7							Lab S	ample ID: PTK	0851-04
Date Collected: 11/22/10 12:20									: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	163		10.0		mg/l	· ·	11/29/10 13:00	11/29/10 15:44	1

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# **Analytical Data**

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

#### TestAmerica Job ID: PTK0851 SDG: PTK0851

#### Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Client Sample ID: Outfall #1							Lab S	ample ID: PTK	
Date Collected: 11/22/10 12:10								Matrix	: Water
Date Received: 11/23/10 13:55								•	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.76		mg/l		12/07/10 11:48	12/08/10 13:27	1
Client Sample ID: Outfall #4							Lab S	ample ID: PTK	0851-02
Date Collected: 11/22/10 12:30								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.95		mg/l		12/07/10 11:48	12/08/10 13:27	1
 Client Sample ID: Outfall #5							Lab S	ample ID: PTK	0851-03
Date Collected: 11/22/10 12:25									: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	ND		4.95		mg/l		12/07/10 11:48	12/08/10 13:27	1
_ Client Sample ID: Outfall #7							Lab S	ample ID: PTK	0851-04
Date Collected: 11/22/10 12:20								•	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oil & Grease	5.48		4.81		mg/l		12/07/10 11:48	12/08/10 13:27	

TestAmerica Portland 12/09/2010

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#### **Analytical Data**

Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736 TestAmerica Job ID: PTK0851 SDG: PTK0851

#### Method: SM 4500-H B - Conventional Chemistry Parameters per Standard Methods

Client Sample ID: Outfall #1							Lab S	ample ID: PTK	0851-01
Date Collected: 11/22/10 12:10								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
рН	8.24	· · · ·			pH Units	. –	11/22/10 12:15	11/22/10 12:20	1
Client Sample ID: Outfall #4							Lab S	ample ID: PTK	0851-02
Date Collected: 11/22/10 12:30								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
рН	8.47		·····		pH Units		11/22/10 12:35	11/22/10 12:40	1
Client Sample ID: Outfall #5							Lab S	ample ID: PTK	0851-03
Date Collected: 11/22/10 12:25									: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
рН	8.06				pH Units		11/22/10 12:30	11/22/10 12:35	1
Client Sample ID: Outfall #7							Lab S	ample ID: PTK	0851-04
Date Collected: 11/22/10 12:20								Matrix	: Water
Date Received: 11/23/10 13:55									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
pH	7.91				pH Units		11/22/10 12:25	11/22/10 12:30	1



#### **Quality Control Data**

Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736 TestAmerica Job ID: PTK0851 SDG: PTK0851

#### Method: EPA 200.8 - Total Metals per EPA 200 Series Methods

Lab Sample ID: 10L0010-BLK1										С	lient Sa	imple ID: 10		
Matrix: Water														e: tota
Analysis Batch: 10L0010	_											Prep Batch	: 1010	010_6
A	_	Blank Bl							_		_			
Analyte	R		ualifier		RL	MD	L Unit		<b>D</b>	10/0	Prepared		·	Dil Fac
Copper		ND		0.00			mg/l				1/10 10:07			
Lead		ND		0.00			mg/i				1/10 10:07			•
Zinc		ND		0.0	100		mg/l			12/01	1/10 10:07	7 12/01/10 2	2:02	1
Lab Sample ID: 10L0010-BS1											Client S	Sample ID: 1	0L001	10-BS1
Matrix: Water												Pre	р Туре	e: tota
Analysis Batch: 10L0010												Prep Batch	: 10L0	)010_F
				Spike	L	cs I	LCS					% Rec.		
Analyte				Added	Re	ult	Qualifier	Unit		D	% Rec	Limits		
Copper				0.100	0.0	33		mg/ł			93.3	85 - 115		
Lead				0.100	0.0	36		mg/l			93.6	85 - 115		
Zinc				0.100	0.0	876		mg/l			87.6	85 - 115		
Lab Sample ID: 10L0010-MS1											Client	Sample ID:	РТК0	842-12
Matrix: Water												Pre	р Туре	e: tota
Analysis Batch: 10L0010												Prep Batch		
•	Sample	Sample	•	Spike	Matrix Sp	ike	Matrix Spik	e				% Rec.		
Analyte	Result	Qualifie	ər	Added	Re	ult	Qualifier	Unit		D	% Rec	Limits		
Copper	0.0167			0.100	0.	01		mg/l			84.7	75 - 125		
Lead	0.0123			0.100	0.0	999		mg/l			87.6	75 - 125		
Zinc	0,136			0.100	0.:	217		mg/l			80.8	70 - 130		
Lab Sample ID: 10L0010-MS2											Clie	nt Sample I	D: Out	tfall #7
Matrix: Water												Pre	р Туре	e: tota
Analysis Batch: 10L0010												Prep Batch	: 10LC	010_F
-	Sample	Sample	•	Spike	Matrix Sp	ike i	Matrix Spil	(e				% Rec.		
Analyte	Result	Qualifie	er	Added	Re	ult	Qualifier	Unit		Ð	% Rec	Limits		
Copper	0.0406			0.100	0.	29		mg/l			88.2	75 - 125		
Lead	0.0324			0.100	0.	25		mg/l			92.2	75 - 125		
Zinc	0,359			0.100	0.	44		mg/l			84.4	70 - 130		
Lab Sample ID: 10L0010-DUP1											Client	Sample ID:	РТК0	842-06
Matrix: Water												•		e: tota
Analysis Batch: 10L0010												Prep Batch		
	Sample	Sample	•		Duplic	ate	Duplicate							RPE
Analyte	•	Qualifie					Qualifier	Unit		D			RPD	Limi
Copper	0.00124					ND		mg/l			-,		3.95	
Lead	0.000530					ND		mg/l					3.85	20
Zinc	0.0155				0.0			mg/l					0.96	20
	0.0100				. 0.0			mgn					0.30	20

#### Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Lab Sample ID: 10K0857-BLK1 Matrix: Water Analysis Batch: 10K0857								ple ID: 10K085 Prep Typ rep Batch: 10K	e: total
	Blank	Blank							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	ND		10.0		mg/l		11/29/10 13:00	11/29/10 15:44	1

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#### Quality Control Data

Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736 

Lab Sample ID: 10K0857-BS1										. (	Client S	ample ID: 1	0K08	57-BS1
Matrix: Water												•		e: tota
Analysis Batch: 10K0857												Prep Batch		
Analysis Baton. Torrooor				Spike		LCS	LCS					% Rec.		
Analyte				Added			Qualifier	Unit		D	% Rec	Limits		
Total Suspended Solids				60.0		60.0		mg/l			100	80 - 120		·
-														
Lab Sample ID: 10K0857-DUP1											Client	Sample ID:	-	
Matrix: Water														e: total
Analysis Batch: 10K0857	Fomula					Junlianta	Dunlingto					Prep Batch	: 106	
Analista	Sample				1	•	Duplicate			_				RPD
Analyte	Result	Qual	ifier				Qualifier	Unit		D			RPD	
Total Suspended Solids _	13.0					14.0		mg/l					7.41	20
Method: EPA 1664A - Oil and	Grease	Ana	alysis p	er EPA	Meth	od 166	4							
Lab Sample ID: 10L0199-BLK1										С	lient Sa	mple ID: 10	L019	9-BLK1
Matrix: Water												Pre	р Тур	e: total
Analysis Batch: 10L0199												Prep Batch	: 10L	.0199_P
	В	lank	Blank											
Analyte	Re	esult	Qualifier		RL	м	DL Unit		D		Prepared	d Anal	yzed	Dil Fac
Oil & Grease		ND			5.00		mg/l			12/07	7/10 11:40	B 12/08/10 1	3:27	1
Lab Sample ID: 10L0199-BLK2										С	lient Sa	ample ID: 10	L019	9-BLK2
Matrix: Water										_		•		e: total
Analysis Batch: 10L0199												Prep Batch		
	в	lank	Blank									T top Baton		
Analyte			Qualifier		RL	м	DL Unit		D		Prepare	d Anal	vzed	Dil Fac
Oil & Grease		ND			5.00		mg/l			12/07	7/10 11:44		-	1
Lab Sample ID: 10L0199-BS1											Client	Sample ID: 1	01.01	00.BS1
Matrix: Water											Glient	•		be: total
Analysis Batch: 10L0199				Cailes		1.00	LCS					Prep Batch % Rec.		.0199_F
Analyte				Spike				Unit		-	N/ Daa	Limits		
Oil & Grease				Added 40.0		40.7	Qualifier	mg/l		D	% Rec 102	78 - 114		
-				40.0		40.7		ing/i			102	70-114		
Lab Sample ID: 10L0199-MS1											Client	Sample ID:	PTK	092 <mark>9-</mark> 01
Matrix: Water												Pre	р Тур	oe: total
Analysis Batch: 10L0199												Prep Batch	n: 10L	.0199_P
	Sample	Sam	ple	Spike	Mat	rix Spike	Matrix Spike					% Rec.		
Analyte	Result	Qual	ifier	Added		Result	Qualifier	Unit		D	% Rec	Limits		
	0.777			40.0		14.5	M8	mg/l			34.2	78 - 114		
Oil & Grease											Client	Sample ID:	РТК	0929-01
Oil & Grease  Lab Sample ID: 10L0199-MSD1														
 Lab Sample ID: 10L0199-MSD1												Pre		
_ Lab Sample ID: 10L0199-MSD1 Matrix: Water													р Тур	be: tota
 Lab Sample ID: 10L0199-MSD1	Samile	Sam	nle	Snike	Matrix 9	nike Dun	Matrix Snike	Dun				Prep Batch	р Тур	oe: total .0199_F
_ Lab Sample ID: 10L0199-MSD1 Matrix: Water	Sample Result		-	Spik <del>e</del> Added	Matrix S	•	Matrix Spike Qualifier	Dup Unit		D	% Rec		р Тур	be: total .0199_P RPD

#### **Certification Summary**

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 PO# 1997736

### TestAmerica Job ID: PTK0851



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SDG: PTK0851

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Portland	Alaska	Alaska UST	10	UST-012	12/26/10
TestAmerica Portland	Alaska	State Program	10	OR00040	04/21/11
TestAmerica Portland	California	State Program	9	2597	09/30/11
TestAmerica Portland	Oregon	NELAC Primary AB	10	OR100021	01/09/11
TestAmerica Portland	Washington	State Program	10	C586	06/23/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

**TestAmerica** Portland 12/09/2010



CHAIN OF CUSTODY RECORD

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THE LEADER IN ENVIRONMENTAL TESTING

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Client Name/Account #				0 50	uth											-			Щ	יואי		κU						1.	10[			
•	: 2001 Was			<u> </u>												-																
City/State/Zip			97045	5 												-						Her					<u> </u>					
Project Manager																-																
Telephone Number	503-722-4	656				Fa	x N	o.:_								-																
Sampler Name: (Print	) Jeremy N	lorgan	_		-7											-	Pro	ojec	t ID:	Sto	rmv	vate	r									
Sampler Signature			2	$\geq$	_		7									•	P	rojec	:t #:													
Tag ID:							<u> </u>	F	Pre	serva	ative	)			Ma	atrix						Anal	lyze	For:		_						
Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite		1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	250mL Poly Unpreserved					Stormwater			-	O&G	Cu,Pb,Zn	TSS	Brab	FT-PH#1: タ.2ケ	FT-PH Time #1: 121 5	FT-PH#4: R,47	FT-PH Time #4: D-3 S	FT-PH #5: 7, 06	FT-PH Time #5: 12.50	FT-PH #7: 7, 91	FT-PH Time #7: 1225			
Outfall #1	11-22	1210	5	x				X		+		Ħ	-	x	$\uparrow$	$\left  \right $	1	X	ł	x					-		-			1	$\uparrow$	-
Outfall #4	11-22			x				X		╈		$\square$		x				x	x		_			х					$\square$	_	+	+
Outfall #5	11-22			X				X				$\vdash$	-	x		H		X	X					-		x				1	+	1
Outfall #7	11-22		5	X				x			T	$\uparrow \uparrow$		x	$\uparrow$		╈	x										х			$\uparrow$	
		1220					Ĥ	1		+	1	$\uparrow \uparrow$	Ť				+	Ê	Â									Ĥ		$\neg \uparrow$	+	+
								-+	╡	+		+	╉	+	+	$\vdash$	+	┢											+	-+	╉	+
								-+	+	+	+	$\left  \right $	╉	+	+	$\square$	-	╞─												+	+	
	· ·							-+	┥	┢		┢╌┾	╉	╈	+		╈									$\neg$			$\square$	+	+	-
- <u> </u>								-+-	+	+	+	┟┼	+	+	+		+										-	$\square$	-	+	+	+-
							$\square$	-+	╋	╈	+	$\vdash$	+	╋	╋												-	$\vdash$	-+	-+-	+	+-
Special Instructions:				<u> </u>														<u>I</u>							ents					ـلــــ ۱		/
Received by TestAmerica:	Da		<b>—</b>	me																Те	mp	era	itur	e U	po	<u>n R</u>	ece	eipt	t:	4	10	
Jeremy Morgan	H-3		カち																											U	21	
<u> </u>	Da	te	Ti	me	1																											
IN LAB	11-2	3	13.	55																												

TestAmerica 📃 🛸	
THE LEADER IN ENVIRONMENTAL TERTING	
Portland Sample Co	ntrol Charlist
Portland Sample Co	
	ne Received: <u>112340 1355</u>
Client Name: <u>Kapublic</u> Swill	S Mupo Shin
Project Name: Stor Muniliv Time Zone:	
EDT/EST CDT/CST MDT/MST	PDT/PST AK OTHER
Unpacking Checks:	Temperature out of Range:
Cooler (s): $4$ $4$ $4$	Not enough or No Ice Ice Melted
Digi #1 Digi #2 IR Gun	
Ravtek	Ice Not Needed Other:
( Plastie-Glass)	Comp
Ice used: (circle one) GEL LOOSE BLUE N/A Yes No	OTHER: Initials:
N/A Yes No $\square$ $\square$ 1. If ESI client, were temp blanks received by the second s	und? If no document on NOD
$\square$	
	th "received by" & "relinquished by" signatures
with date & time? If no, document on	NOD.
<ul> <li>Sample is not multiphasic? If no, do</li> <li>Sampler name/signature documented</li> </ul>	
$\square$ $\square$ 7. Proper Container and preservatives u	
	requirements? If no, document on NOD.
<b>A</b>	s and meet requirements? If no, notify PM.
Image: Second state in the second s	
	analysis and requested MS/MSD? If no,
document on NOD and consult PM before $\Box$ 12. Did chain of custody agree with sar	nples received? If no, document on NOD.
- I 13. Were VOA samples received witho	
14. Did samples require preservation wi	th sodium thiosulfate?
D [] 15. If yes to #14, was the residual chlor	rine test negative? If no, document on NOD.
Image: Second state of the second s	pottles sediment-free? If no, document on NOD.
□ 🕅 🔲 17. Are analyses with short holding tim	nes received in hold?
18. Were special log- in instructions real	ad and followed?



THE LEADER IN ENVIRONMENTAL TESTING

**Client**: Republic Services Metro South Site: Oregon City / Outfalls 001,004,005,007 Project: Storm water

PTK085/

**Sampling Documentation Form** 

Sampler: Jeremy Morgan Date: <u>11-22-73</u> Time: 1205

#### Sample Matrix: Water

Sampling Method: Grab

Grab Sampling	Equipment:	ISCO:	Other: Dipper
001 Grab Time:	1210		
004 Grab Time:	1230		
005 Grab Time:	1225		
007 Grab Time:	1220		

#### Field Data:

PH Meter: Thermo Scientific Orion 3 Star
001 PH: <u>7,2 </u> Time Taken: <u>1215</u>
004 PH: Time Taken: 5
005 PH: <u>3,06</u> Time Taken: <u>12</u> 30
007 PH: <u>1.9</u> Time Taken: <u>122 S</u>
PH Calibration-7.00 buffer reading:6.97
Slope: <u>96.9</u>
PH Buffer 4: 9/1006/
PH Buffer 7: 211 0062
PH Buffer 10: 9110063

<b>Field Cond</b>	litions:		
Weather		Partly cloudy	

Rainfall:	Heavy	Continuous	Intermittent      Light	None	
vveather:	🗆 Sunny	Partly cloudy	Cloudy © Snowing		

Sample Chara	cteristics:		· · · · · · · · · · · · · · · · · · ·	
Color:	Odor:	TSS: y, s		
Sediment:	Foam:			

#### **Observations and Comments:**

ALC: NO



THE LEADER IN ENVIRONMENTAL TESTING

### ANALYTICAL REPORT

TestAmerica Laboratories, Inc. TestAmerica Portland 9405 SW Nimbus Ave. Beaverton, OR 97008 Tel: (503) 906-9200

TestAmerica Job ID: PTL0710 TestAmerica Sample Delivery Group: PTL0710 Client Project/Site: Q4 Storm Water Sampling 2 of 2 Client Project Description: Stormwater Discharge

#### For:

..... Links

Review your project results through

Total Access

Have a Question?

www.testamericainc.com

Visit us at:

oer

Republic Services-South Metro 2001 Washington St Oregon City, OR 97045

Attn: Kelly Herrod

Brian L Come

Authorized for release by: 1/6/2011 5:13 PM

Brian Cone Industrial Services Manager brian.cone@testamericainc.com

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

01/06/2011

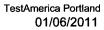
Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 TestAmerica Job ID: PTL0710 SDG: PTL0710

Z

19.00

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Definitions	4
Client Sample Results	5
QC Sample Results	7
Certification Summary	9
Chain of Custody	10



#### **Sample Summary**

Matrix

Water

Water

Water

Water

#### Client: Republic Services-South Metro roject/Site: Q4 Storm Water Sampling 2 of 2

Client Sample ID

Outfall #1

Outfall #4

Outfall #5

Outfall #7

Lab Sample ID

PTL0710-01

PTL0710-02

PTL0710-03

PTL0710-04

#### TestAmerica Job ID: PTL0710

Collected

12/18/10 22:10

12/18/10 22:25

12/18/10 22:30

12/18/10 22:15

3

Received

12/20/10 11:00

12/20/10 11:00

12/20/10 11:00

12/20/10 11:00

TestAmerica	Portland
01/0	6/2011

#### Page 3 of 12

#### **Qualifier Definition/Glossary**

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2

TestAmerica Job ID: PTL0710 SDG: PTL0710

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# Qualifier Description Qualifier Qualifier Description M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS). R2 The RPD exceeded the acceptance limit.

Glossary	Glossary Description	
×	Listed under the "D" column to designate that the result is reported on a dry weight basis.	

**TestAmerica Portland** 01/06/2011

#### **Analytical Data**

Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2 TestAmerica Job ID: PTL0710 SDG: PTL0710

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Client Sample ID: Outfall #1 Date Collected: 12/18/10 22:10 Date Received: 12/20/10 11:00							and outin	ole ID: PTL07 Matrix	: Wate
Method: EPA 1664A - Oil and Greas	e Analysis	per EPA Met	thod 1664						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Oil & Grease	ND		5.00		mg/l	· · ·	01/04/11 09:15	01/05/11 11:11	
Method: EPA 200.8 - Total Metals pe	er EPA 200 :	Series Meth	ods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Copper	0.0235		0.00200		mg/l		12/21/10 08:49	12/22/10 00:54	
Lead	0.0741		0.00100		mg/l		12/21/10 08:49	12/22/10 00:54	
Zinc	0.290		0.0100		mg/l		12/21/10 08:49	12/22/10 00:54	
Method: SM 2540D - Conventional C	Chemistry P	arameters p	er Standard M	ethods					
Analyte	-	- Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Solids	165		10.0		mg/l		12/23/10 11:01	12/23/10 12:20	
Method: SM 4500-H B - Convention	al Chemistr	y Parameter	s per Standard	Method	S				÷ .
Analyte		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fa
рН	7.64				pH Units		12/18/10 22:15	12/18/10 22:20	
Client Sample ID: Outfall #4							l ah Sami	ole ID: PTL07	710_0
•									
Date Collected: 12/18/10 22:25								Matrix	: wate
Date Received: 12/20/10 11:00									
Method: EPA 1664A - Oil and Greas	e Analysis	per EPA Me	thod 1664						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Oil & Grease	ND		5.00		mg/l		01/04/11 09:15	01/05/11 11:11	
-									
Method: EPA 200.8 - Total Metals pe	er EPA 200	Series Meth	ods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Copper	0.0138		0.00200		mg/l		12/21/10 08:49	12/22/10 01:02	
Lead	0.0118		0.00100		mg/l		12/21/10 08:49	12/22/10 01:02	
			0.0100		mg/l		12/21/10 08:49	12/22/10 01:02	
Zinc	0.0935						-		
		arameters p	ber Standard M	ethods					
Zinc	Chemistry P	arameters p Qualifier	per Standard M RL	ethods MDL	Unit	D	Prepared	Analyzed	Dil Fa
Zinc Method: SM 2540D - Conventional C	Chemistry P	-			Unit mg/l	D	Prepared 12/23/10 11:01	Analyzed 12/23/10 12:20	Dil Fa
Zinc Method: SM 2540D - Conventional C Analyte	Chemistry P Result 125	Qualifier	RL 10.0	MDL	mg/l	D			Dil Fa
Zinc Method: SM 2540D - Conventional ( Analyte Total Suspended Solids	Chemistry P Result 125 al Chemistr	Qualifier	RL 10.0	MDL	mg/l	D			Dil Fa Dil Fa
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona	Chemistry P Result 125 al Chemistr	Qualifier y Parameter	RL 10.0	MDL	mg/l s	D	12/23/10 11:01	12/23/10 12:20	
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona Analyte pH	Chemistry P Result 125 al Chemistr Result	Qualifier y Parameter	RL 10.0	MDL	mg/l S Unit	D	12/23/10 11:01 Prepared 12/18/10 22:30	12/23/10 12:20 Analyzed 12/18/10 22:35	Dil Fa
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventions Analyte pH Client Sample ID: Outfall #5	Chemistry P Result 125 al Chemistr Result	Qualifier y Parameter	RL 10.0	MDL	mg/l S Unit	D D	12/23/10 11:01 Prepared 12/18/10 22:30	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07	Dil Fa 710-0
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventions Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30	Chemistry P Result 125 al Chemistr Result	Qualifier y Parameter	RL 10.0	MDL	mg/l S Unit	D	12/23/10 11:01 Prepared 12/18/10 22:30	12/23/10 12:20 Analyzed 12/18/10 22:35	Dil Fa 710-0
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventions Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30	Chemistry P Result 125 al Chemistr Result	Qualifier y Parameter	RL 10.0	MDL	mg/l S Unit	D	12/23/10 11:01 Prepared 12/18/10 22:30	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07	Dil Fa 710-0
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30 Date Received: 12/20/10 11:00 Method: EPA 1664A - Oil and Greas	Chemistry P Result 125 al Chemistr Result 6.97 se Analysis	Qualifier y Parameter Qualifier	RL 10.0 rs per Standard RL thod 1664	MDL Method MDL	mg/l S Unit pH Units	<u>D</u>	12/23/10 11:01 Prepared 12/18/10 22:30 Lab Sam	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07 Matrix	Dil Fa 710-0 :: Wate
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30 Date Received: 12/20/10 11:00 Method: EPA 1664A - Oil and Greas Analyte	Chemistry P Result 125 al Chemistr Result 6.97 se Analysis Result	Qualifier y Parameter Qualifier	RL 10.0 rs per Standard RL thod 1664 RL	MDL Method MDL	mg/l S Unit pH Units Unit	D D D D	12/23/10 11:01 Prepared 12/18/10 22:30 Lab Sam	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07 Matrix Analyzed	Dil Fa 710-0 :: Wate
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30 Date Received: 12/20/10 11:00 Method: EPA 1664A - Oil and Greas	Chemistry P Result 125 al Chemistr Result 6.97 se Analysis	Qualifier y Parameter Qualifier	RL 10.0 rs per Standard RL thod 1664	MDL Method MDL	mg/l S Unit pH Units	<u>D</u>	12/23/10 11:01 Prepared 12/18/10 22:30 Lab Sam	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07 Matrix	Dil Fa 710-0
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30 Date Received: 12/20/10 11:00 Method: EPA 1664A - Oil and Greas Analyte	Chemistry P Result 125 al Chemistr Result 6.97 se Analysis Result ND	Qualifier y Parameter Qualifier per EPA Me Qualifier	RL 10.0 rs per Standard RL thod 1664 RL 5.00	MDL Method MDL	mg/l S Unit pH Units Unit	<u>D</u>	12/23/10 11:01 Prepared 12/18/10 22:30 Lab Sam	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07 Matrix Analyzed	Dil Fa 710-0 :: Wate Dil Fa
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30 Date Received: 12/20/10 11:00 Method: EPA 1664A - Oil and Greas Analyte Oil & Grease	Chemistry P Result 125 al Chemistr Result 6.97 se Analysis Result ND er EPA 200	Qualifier y Parameter Qualifier per EPA Me Qualifier	RL 10.0 rs per Standard RL thod 1664 RL 5.00	MDL MDL MDL	mg/l S Unit pH Units Unit	<u>D</u>	12/23/10 11:01 Prepared 12/18/10 22:30 Lab Sam	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07 Matrix Analyzed	Dil Fa 710-0 :: Wate Dil Fa
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30 Date Received: 12/20/10 11:00 Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: EPA 200.8 - Total Metals per	Chemistry P Result 125 al Chemistr Result 6.97 se Analysis Result ND er EPA 200	Qualifier y Parameter Qualifier per EPA Me Qualifier Series Meth	RL 10.0 rs per Standard RL thod 1664 RL 5.00	MDL MDL MDL	mg/l S Unit pH Units Unit mg/l	D	12/23/10 11:01 Prepared 12/18/10 22:30 Lab Sam Prepared 01/04/11 09:15	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07 Matrix Analyzed 01/05/11 11:11	Dil Fa 710-0 :: Wate Dil Fa
Zinc Method: SM 2540D - Conventional C Analyte Total Suspended Solids Method: SM 4500-H B - Conventiona Analyte pH Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30 Date Received: 12/20/10 11:00 Method: EPA 1664A - Oil and Greas Analyte Oil & Grease Method: EPA 200.8 - Total Metals per Analyte	Chemistry P Result 125 al Chemistr Result 6.97 se Analysis Result ND er EPA 200 Result	Qualifier y Parameter Qualifier per EPA Me Qualifier Series Meth	RL 10.0 rs per Standard RL thod 1664 RL 5.00 nods RL	MDL MDL MDL	mg/l S Unit pH Units Unit mg/l	D	12/23/10 11:01 Prepared 12/18/10 22:30 Lab Sam Prepared 01/04/11 09:15 Prepared	12/23/10 12:20 Analyzed 12/18/10 22:35 ple ID: PTL07 Matrix Analyzed 01/05/11 11:11 Analyzed	Dil Fa 710-0 :: Wate

#### **Analytical Data**

TestAmerica Job ID: PTL0710 SDG: PTL0710

Client Sample ID: Outfall #5 Date Collected: 12/18/10 22:30							Lab Samp	ole ID: PTL07 Matrix	710-03 :: Wate
Date Received: 12/20/10 11:00									
Method: SM 2540D - Conventional	Chemistry P	arameters p	er Standard Me	ethods					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Solids	35.0		10.0		mg/l		12/23/10 11:01	12/23/10 12:20	
Method: SM 4500-H B - Conventior	al Chemistr	y Parameter	s per Standard	Method	s				
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
рН	7.39	·			pH Units		12/18/10 22:35	12/18/10 22:40	
Client Sample ID: Outfall #7							Lab Sam	ole ID: PTL0	710-04
Date Collected: 12/18/10 22:15								Matrix	: Wate
Date Received: 12/20/10 11:00									
_	· · · ·								
Method: EPA 1664A - Oil and Grea	se Analysis	per EPA Me	thod 1664						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Oil & Grease	ND		5.00		mg/l		01/04/11 09:15	01/05/11 11:11	
 Method: EPA 200.8 - Total Metals p	er EPA 200	Series Meth	ods						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Copper	0.00252		0.00200		mg/l		12/21/10 08:49	12/22/10 01:10	
Lead	0.00120		0.00100		mg/l		12/21/10 08:49	12/22/10 01:10	
Zinc	0.0283		0.0100		mg/l		12/21/10 08:49	12/22/10 01:10	
Method: SM 2540D - Conventional	Chemistry F	arameters p	er Standard M	ethods					
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total Suspended Solids	ND		10.0		mg/l		12/23/10 11:01	12/23/10 12:20	
Method: SM 4500-H B - Conventior	nal Chemistr	y Parameter	s per Standard	Method	s				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
pH	7.74				pH Units		12/18/10 22:20	12/18/10 22:25	

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#### Method: EPA 1664A - Oil and Grease Analysis per EPA Method 1664

Lab Sample ID: 11A0021-BLK1 Matrix: Water Analysis Batch: 11A0021								CI		nple ID: 11A Prep Prep Batch: <sup>-</sup>	Туре	e: total
	B	lank Blank							•	Top Datom		·
Analyte		esult Qualifier		RL M	DL Unit		D		Prepared	Analyz	ed	Dil Fac
Oil & Grease	,	ND		5.00	mg/l				/11 08:30	01/05/11 11:		1
_ Lab Sample ID: 11A0021-BS1								Ċ	Client Sa	ample ID: 11	A002	1-BS1
Matrix: Water												: total
Analysis Batch: 11A0021									F	• Prep Batch: "	•••	
•			Spike	LCS	LCS					% Rec.		_
Analyte			Added	Result	Qualifier	Unit		D	% Rec	Limits		
Oil & Grease			40.1	32.7		mg/l			81.5	78 - 114		
 Lab Sample ID: 11A0021-MS1									Client	Sample ID: F	PTL1	060-01
Matrix: Water										Prep	Туре	e: total
Analysis Batch: 11A0021									· · · •	Prep Batch:	11A0	021_P
	Sample	Sample	Spike	Matrix Spike	Matrix Spike	•				% Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	% Rec	Limits		
Oil & Grease	0.900		40.1	78,5	M7	mg/l			194	78 - 114		
Lab Sample ID: 11A0021-MSD1									Client	Sample ID: F	PTL1	060-01
Matrix: Water										Prep	Туре	: total
Analysis Batch: 11A0021									I	Prep Batch:	11A0	021_P
	Sample	Sample	Spike	Matrix Spike Dup	Matrix Spike	e Dup				% Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	% Rec	Limits	RPD	Limit
Oil & Grease	0.900		40.1	33.9	R2	mg/l			82.3	78 - 114	79.4	18
_	etals per	EPA 200 S	eries N	lethods			-				0040	
Lab Sample ID: 10L0616-BLK1 Matrix: Water	etals per	<sup>.</sup> EPA 200 S	eries N	lethods				CI		•	Туре	e: total
Lab Sample ID: 10L0616-BLK1	i	EPA 200 S Blank Blank	eries N	lethods				CI			Туре	e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water	E		eries N		IDL Unit		D	CI		Prep Prep Batch:	Туре 10L0	e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616	E	Blank Blank			IDL Unit		<u>D</u>			Prep Prep Batch:	Type 10L0 red	e: total 616_P
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 <sup>Analyte</sup>	E	Blank Blank esult Qualifier	C	RL N			<u>D</u>	12/21	Prepared	Prep Prep Batch: Analyz 12/21/10 23	Type 10L0 2ed :50	e: total 616_P Dil Fac
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper	E	Slank Blank esult Qualifier ND	C	<b>RL N</b> 0.00200	mg/l		D	12/21 12/21	Prepared /10 08:49	Prep Prep Batch: <u>Analyz</u> 12/21/10 23 12/21/10 23	Type 10L0 2ed :50 :50	e: total 616_P Dil Fac 1
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc	E	Slank Blank esult Qualifier ND ND	C	RL N 0.00200 0.00100	mg/l mg/l		<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49	Prep Prep Batch: <u>Analyz</u> 12/21/10 23 12/21/10 23	Type 10L0 :50 :50 :50	e: total 6616_P Dil Fac 1 1
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead	E	Slank Blank esult Qualifier ND ND	C	RL N 0.00200 0.00100	mg/l mg/l		<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10	Type 10L0 50 50 50	e: total 6616_P Dil Fac 1 1 1 6-BS1
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1	E	Slank Blank esult Qualifier ND ND	C	RL N 0.00200 0.00100	mg/l mg/l		<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49 Client S	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10	Type 10L0 :50 :50 :50 :50 L061 Type	e: total 6616_P DII Fac 1 1 1 6-BS1 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water	E	Slank Blank esult Qualifier ND ND	C	RL N 0.00200 0.00100 0.0100	mg/l mg/l		<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49 Client S	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep	Type 10L0 :50 :50 :50 :50 L061 Type	e: total 6616_P DII Fac 1 1 1 6-BS1 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water	E	Slank Blank esult Qualifier ND ND	C	RL N 0.00200 0.00100 0.0100 LCS	mg/l mg/l mg/l	Unit	<u>D</u> .	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49 Client S	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Prep Batch:	Type 10L0 :50 :50 :50 :50 L061 Type	e: total 6616_P DII Fac 1 1 1 6-BS1 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616	E	Slank Blank esult Qualifier ND ND	C C Spike	RL N 0.00200 0.00100 0.0100 LCS Result	mg/l mg/l mg/l LCS Qualifier	Unit	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49 Client S	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Prep Batch: % Rec.	Type 10L0 :50 :50 :50 :50 L061 Type	e: total 6616_P DII Fac 1 1 1 6-BS1 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Analyte	E	Slank Blank esult Qualifier ND ND	C C Spike Added	RL         N           0.00200         0.00100           0.0100         ECS           Result         0.0972	mg/l mg/l mg/l LCS Qualifier		<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49 Client S % Rec	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Prep Batch: % Rec. Limits	Type 10L0 :50 :50 :50 :50 L061 Type	e: total 6616_P DII Fac 1 1 1 6-BS1 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper	E	Slank Blank esult Qualifier ND ND	C C Spike Added 0.100	RL         N           0.00200         0.00100           0.0100         ECS           Result         0.0972           0.103         0.03	mg/l mg/l mg/l LCS Qualifier	mg/l	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 Client S <u>% Rec</u> 97.2	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Prep Batch: % Rec. Limits 85 - 115	Type 10L0 :50 :50 :50 :50 L061 Type	e: total 6616_P DII Fac 1 1 1 6-BS1 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead	E	Slank Blank esult Qualifier ND ND	Spike Added 0.100 0.100	RL         N           0.00200         0.00100           0.0100         ECS           Result         0.0972           0.103         0.03	mg/l mg/l mg/l LCS Qualifier	mg/l mg/l	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 Client S % Rec 97.2 103 95.6	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Prep Batch: % Rec. Limits 85 - 115 85 - 115 85 - 115 Sample ID: F	Type 10L0 50 50 50 L061 Type 10L0	e: total 616_P Dil Fac 1 1 6-BS1 6-BS1 6-BS1 6616_P 672-02
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-MS1 Matrix: Water	E	Slank Blank esult Qualifier ND ND	Spike Added 0.100 0.100	RL         N           0.00200         0.00100           0.0100         ECS           Result         0.0972           0.103         0.03	mg/l mg/l mg/l LCS Qualifier	mg/l mg/l	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 Client S % Rec 97.2 103 95.6 Client	Prep Prep Batch: <u>Analyz</u> 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Prep Batch: % Rec. <u>Limits</u> 85 - 115 85 - 115 85 - 115 Sample ID: F Prep	Type 10L0 2ed 50 50 50 10L0 10L0 7ype 7TL0	e: total 616_P Dil Fac 1 1 6-BS1 6-BS1 6616_P 672-02 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-MS1	R	Blank Blank esult Qualifier ND ND ND	Spike Added 0.100 0.100	RL         N           0.00200         0.00100           0.0100         0.0100           LCS         Result           0.0972         0.103           0.0956         0.0956	mg/l mg/l mg/l LCS Qualifier	mg/l mg/l mg/l	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 Client S % Rec 97.2 103 95.6 Client	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Batch: % Rec. Limits 85 - 115 85 - 115 85 - 115 Sample ID: F Prep Prep Batch:	Type 10L0 2ed 50 50 50 10L0 10L0 7ype 7TL0	e: total 616_P Dil Fac 1 1 6-BS1 6-BS1 6616_P 672-02 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-MS1 Matrix: Water Analysis Batch: 10L0616	E R	Blank Blank esult Qualifier ND ND ND	Spike Added 0.100 0.100 0.100 Spike	RL         N           0.00200         0.00100           0.0100         LCS           Result         0.0972           0.103         0.0956           Matrix Spike	mg/l mg/l LCS Qualifier	mg/l mg/l mg/l	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 Client S % Rec 97.2 103 95.6 Client	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Batch: % Rec. Limits 85 - 115 85 - 115 85 - 115 Sample ID: F Prep Batch: % Rec.	Type 10L0 2ed 50 50 50 10L0 10L0 7ype 7TL0	e: total 616_P Dil Fac 1 1 6-BS1 6-BS1 6616_P 672-02 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Copper Lead Zinc Lab Sample ID: 10L0616-MS1 Matrix: Water Analysis Batch: 10L0616 Analyte	E R Sample Result	Blank Blank esult Qualifier ND ND ND	Spike Added 0.100 0.100 0.100 Spike Added	RL         N           0.00200         0.00100           0.0100         LCS           Result         0.0972           0.103         0.0956           Matrix Spike         Result	mg/l mg/l LCS Qualifier Qualifier	mg/l mg/l mg/l e Unit	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49 Client S % Rec 97.2 103 95.6 Client % Rec	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Batch: % Rec. Limits Sample ID: F Prep Batch: % Rec. Limits	Type 10L0 2ed 50 50 50 10L0 10L0 7ype 7TL0	e: total 616_P Dil Fac 1 1 6-BS1 6-BS1 6616_P 672-02 e: total
Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-MS1 Matrix: Water Analysis Batch: 10L0616 Matrix: Water Analysis Batch: 10L0616	E R Sample Result 0.00617	Blank Blank esult Qualifier ND ND ND	Spike Added 0.100 0.100 0.100 Spike Added 0.100	RL         N           0.00200         0.00100           0.0100         LCS           Result         0.0972           0.103         0.0956           Matrix Spike         Result           0.108         0.108	mg/l mg/l LCS Qualifier Matrix Spike Qualifier	mg/l mg/l mg/l e Unit mg/l	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49 Client S % Rec 97.2 103 95.6 Client & Rec 101	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Batch: % Rec. Limits 85 - 115 85 - 115 85 - 115 Sample ID: F Prep Batch: % Rec. Limits 75 - 125	Type 10L0 2ed 50 50 50 10L0 10L0 7ype 7TL0	e: total 616_P Dil Fac 1 1 6-BS1 6-BS1 6616_P 672-02 e: total
Lab Sample ID: 10L0616-BLK1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-BS1 Matrix: Water Analysis Batch: 10L0616 Analyte Copper Lead Zinc Lab Sample ID: 10L0616-MS1 Matrix: Water Analysis Batch: 10L0616 Analyte	E R Sample Result	Blank Blank esult Qualifier ND ND ND	Spike Added 0.100 0.100 0.100 Spike Added	RL         N           0.00200         0.00100           0.0100         0.0100           LCS         Result           0.0972         0.103           0.0956         Matrix Spike           Result         0.108           0.102         0.102	mg/l mg/l LCS Qualifier Qualifier	mg/l mg/l mg/l e Unit	<u>D</u>	12/21 12/21 12/21	Prepared /10 08:49 /10 08:49 /10 08:49 Client S % Rec 97.2 103 95.6 Client % Rec	Prep Batch: Analyz 12/21/10 23 12/21/10 23 12/21/10 23 ample ID: 10 Prep Batch: % Rec. Limits Sample ID: F Prep Batch: % Rec. Limits	Type 10L0 2ed 50 50 50 10L0 10L0 7ype 7TL0	e: total 616_P Dil Fac 1 1 6-BS1 6-BS1 6616_P 672-02 e: total

TestAmerica Portland 01/06/2011

#### Method: EPA 200.8 - Total Metals per EPA 200 Series Methods (Continued)

Lab Sample ID: 10L0616-MS2								Clier	nt Sample I	D: Out	fall #1
Matrix: Water									Pre	р Туре	: total
Analysis Batch: 10L0616								I	Prep Batch	: 10L0	616_P
	Sample	Sample	Spike	Matrix Spike	Matrix Spik	e			% Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	% Rec	Limits		
Copper	0.0235		0.100	0.121		mg/t		97.9	75 - 125		
Lead	0.0741		0.100	0.169		mg/l		95.3	75 - 125		
Zinc	0.290		0.100	0.380		mg/l		90.3	70 - 130		
Lab Sample ID: 10L0616-DUP1								Client	Sample ID:	PTLO	568-02
Matrix: Water									Pre	р Туре	: total
Analysis Batch: 10L0616									Prep Batch	: 10L0	616_P
	Sample	Sample		Duplicate	Duplicate						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limit
Copper	0.00164			ND		mg/l				7.06	20
Lead	0.000140			ND	`	mg/l					20
Zinc	ND			ND		mg/l					20

#### Method: SM 2540D - Conventional Chemistry Parameters per Standard Methods

Lab Sample ID: 10L0708-BLK1 Matrix: Water Analysis Batch: 10L0708										С		mple ID: 10L07 Prep Ty Prep Batch: 10	pe: total
		lank i											
Analyte	Re	sult (	Qualifier		RL	M	DL Unit		D		Prepared	Analyzed	Dil Fac
Total Suspended Solids		ND			10.0		mg/l			12/2	3/10 11:01	12/23/10 12:20	1
Lab Sample ID: 10L0708-BS1				,							Client S	ample ID: 10L0	708-BS1
Matrix: Water												Prep Ty	pe: total
Analysis Batch: 10L0708												Prep Batch: 10	L0708_P
				Spike		LCS	LCS					% Rec.	
Analyte				Added		Result	Qualifier	Unit		D	% Rec	Limits	
Total Suspended Solids				60.0		60.0		mg/l			100	80 - 120	
Lab Sample ID: 10L0708-DUP1											Client	Sample ID: PT	L0640-01
Matrix: Water												Prep Ty	pe: total
Analysis Batch: 10L0708										÷		Prep Batch: 10	L0708 P
	Sample	Samp	le .			Duplicate	Duplicate					-	RPD
Analyte	Result	Qualif	ier			Result	Qualifier	Unit		D		RF	D Limit
Total Suspended Solids	ND					ND		mg/l					20

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#### **Certification Summary**

#### Client: Republic Services-South Metro Project/Site: Q4 Storm Water Sampling 2 of 2

#### TestAmerica Job ID: PTL0710 SDG: PTL0710

Laboratory	Authority	Program	EPA Region	Certification ID	Expiration Date
TestAmerica Portland	Alaska	State Program	10	OR00040	04/21/11
TestAmerica Portland	California	State Program	9	2597	09/30/11
TestAmerica Portland	Oregon	NELAC Primary AB	10	OR100021	01/09/11
TestAmerica Portland	Washington	State Program	10	C586	06/23/11

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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_	City/State/Zip:			97043	)												-																
	Project Manager:			<u>.</u>		<u> </u>	Far																							·			-
	Telephone Number:						rax	NO																									
	Sampler Name: (Print)				>									<u> </u>			Proj		•		rmv	/ate	<u>r</u>										
Tag ID:	Sampler Signature:	Ź	$\geq$	$\leq$			 Г				43						Pro	Jec	. #:			A		<b>-</b>					_				Ξ
Tay ID.	<u></u>						⊦		Р	rese	ervati	ve	_		Mat		$\rightarrow$		—			Ana	yze	For:									+
Sample ID / De Outfall #1 Outfall #4 Outfall #5 Outfall #7	escription 2210 2225 2230 2215	12-18 12-18		5 C No. of Containers	X X Crab	Composite	) ) ) )	$\langle \rangle$						X X X Stormwater				x x	x x x			× FT-PH #1: γ, μμ	FT-PH Time #1: 10/S	ET-PH #4: 6. 92	FT-PH Time #4: / 0 30	ET-PH #5: 7, 39	FT-PH Time #5: /0 3 5	× ΕΤ-ΡΗ #7: 7°, 74,	FT-PH Time #7: /020				
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01/06/2011

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HE LEADE	America R IN ENVIRONMENTAL TESTING								
Portland Sample Control Checklist									
Clier Proje Time	k Order #: PTLOTIO Date/Time Received: 2010 11.00 nt Name: REPUBLIC SERVICES ect Name: John Wares Zone: DT/EST CDT/CST MDT/MST PDT/PST AK OTHER								
-	acking Checks:       Temperature out of Range:         Cooler (s):								
Ice u	sed: (circle one) GEL KOOSE BLUE OTHER: Initials:								
NA ROX OK	Yes       No         Image:								
$\mathbf{x}$	<ul> <li>document on NOD and consult PM before proceeding.</li> <li>12. Did chain of custody agree with samples received? If no, document on NOD.</li> <li>13. Were VOA samples received without headspace?</li> </ul>								
	<ul> <li>14. Did samples require preservation with sodium thiosulfate?</li> <li>15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.</li> <li>16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.</li> <li>17. Are analyses with short holding times received in hold?</li> <li>18. Were special log- in instructions read and followed?</li> </ul>								

9405 SW Nimbus Ave, Beaverton OR 97008 tel 503.906.9200 fax 503.906.9210 www.testamericainc.com

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THE LEADER IN ENVIRONMENTAL TESTING

PTLOTIO

#### **Sampling Documentation Form**

Client: Republic Services Metro South Site: Oregon City / Outfalls 001,004,005,007 Project: Storm water

Sampler: Jeremy Morgan Date: 12-13-10 1038 Time:

#### Sample Matrix: Water

Sampling Method: Grab

Grab Sampling Equipment		Other: Dipper	
001 Grab Time: 1016	2210		
004 Grab Time: 1025	2225	·	
005 Grab Time: 1030	2230		
007 Grab Time: 1073	2215	•	

#### Field Data

PH Meter: Thermo Scientific Orion 3 Star
001 PH: 7,64 Time Taken: +++5 2215
004 PH: 6.97 Time Taken: 1030 2230
005 PH: 7:37 Time Taken: 1075 2235
007 PH: 7.74 Time Taken: 1020 2220
PH Calibration-7.00 buffer reading: 7.1 S
Slope: 99.4
PH Buffer 4: 91(0061
PH Buffer 7: 91(0062
PH Buffer 10: 9((0063

Field Condi	tions:
-------------	--------

Weather:	
Rainfall:	

Color:

Sediment:

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□ Sunny □ Heavy

□ Partly cloudy Continuous

□ Cloudy □ Intermittent □ Light

□ Snowing □ None

Sample Characteristics: Odor: Foam:

TSS: <u>yes</u>

#### **Observations and Comments:**

#### <u>Appendix D</u>

- Q1 Waste Water Report
- Q2 Waste Water Report
- Q3 Waste Water Report
- Q4 Waste Water Report



PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210 ORELAP#: OR100021

January 28, 2010

Kelly Herrod Republic Services-Metro S.Trnsfr Stn 2001 Washington St Oregon City, OR 97045

RE: Industrial Wastewater Discharge Permit

Enclosed are the results of analyses for samples received by the laboratory on 01/14/10 15:50. The following list is a summary of the Work Orders contained in this report, generated on 01/28/10 13:56.

If you have any questions concerning this report, please feel free to contact me.

Work Order PTA0357 Project Industrial Wastewater Dischar; <u>ProjectNumber</u> Q4 Sewer Discharge Sampling

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except in full, without the written approval of the laboratory.

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Metro S.Trnsfr StnProject Name:Industrial Wastewater Discharge Permit2001 Washington StProject Number:Q4 Sewer Discharge SamplingReport Created:Oregon City, OR 97045Project Manager:Kelly Herrod01/28/10 13:56

	ANALYTICAL REPO	ORT FOR SAMI	PLES	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Point of Compliance-Grab	PTA0357-01	Water	01/14/10 14:15	01/14/10 15:50
Point of Compliance-Comp	PTA0357-02	Water	01/14/10 14:20	01/14/10 15:50

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

**Republic Services-Metro S.Trnsfr Stn** 

2001 Washington St Oregon City, OR 97045 Project Name: Project Number: Project Manager:

Industrial Wastewater Discharge Permit
 Q4 Sewer Discharge Sampling
 ger: Kelly Herrod

Report Created: 01/28/10 13:56

Oil and Grease Analysis per EPA Method 1664 TestAmerica Portland										
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTA0357-01 (Point of Co	ompliance-Grab)		Wa	iter		Sam	pled: 01/14/	10 14:15		
Oil & Grease	EPA 1664	ND		5.00	mg/l	lx	10A0470	01/20/10 16:11	01/21/10 08:06	ID6
Oil & Grease (non-polar)	*	ND		5.00	"	. н	4	"	01/21/10 10:16	
Oil & Grease (polar)	[CALC]	ND		5.00		'n	[CALC]	•		

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Estella Rieben For Brian Cone, Industrial Services Manager

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-713

BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

# Republic Services-Metro S.Trnsfr StnProject Name:Industrial Wastewater Discharge Permit2001 Washington StProject Number:Q4 Sewer Discharge SamplingReport Created:Oregon City, OR 97045Project Manager:Kelly Herrod01/28/10 13:56

	Total Metals per EPA 200 Series Methods TestAmerica Portland										
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
РТА0357-02	(Point of Compliance-Comp)		W	ater		Sam	pled: 01/14/	10 14:20			
Copper	EPA 200.8	0.0182		0,00200	mg/l	lx	10A0604	01/25/10 10:55	01/25/10 22:34		
Lead	"	0.00705		0.00100	"	"	"	н	01/26/10 18:06		
Zinc	"	0.125		0.0100	**	н	н	н	01/25/10 17:46		

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THE LEADER IN ENVIRONMENTAL TESTING

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210 PORTLAND, OR

**Republic Services-Metro S.Trnsfr Stn** 

2001 Washington St Oregon City, OR 97045 Project Name: Project Number: Q4 Sewer Discharge Sampling Project Manager: Kelly Herrod

**Industrial Wastewater Discharge Permit** 

Report Created: 01/28/10 13:56

Total Mercury per EPA Method 245.1 TestAmerica Portland										
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTA0357-02	(Point of Compliance-Comp)		Water			Sampled: 01/14/10 14:20				
Mercury	EPA 245.1	ND		0.000200	mg/l	lx	10A0353	01/15/10 10:36	01/15/10 14:55	

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THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.M BEAVER

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

# Republic Services-Metro S.Trnsfr Stn Project Name: Industrial Wastewater Discharge Permit 2001 Washington St Project Number: Q4 Sewer Discharge Sampling Report Created: Oregon City, OR 97045 Project Manager: Kelly Herrod 01/28/1013:56

Conventional Chemistry Parameters per Standard Methods TestAmerica Portland										
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTA0357-02 (Point of Com	pliance-Comp)		Wa	ter		Sam	pled: 01/14/	10 14:20		
Biochemical Oxygen Demand	SM 5210B	207		4.00	mg/l	lx	10A0348	01/15/10 09:03	01/20/10 11:30	
Total Suspended Solids	SM 2540D	70.0		10.0		"	10A0466	01/20/10 10:50	01/20/10 17:31	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

#### THE LEADER IN ENVIRONMENTAL TESTING

Republic	Services-Metro	S.Trnsfr Stn
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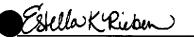
2001 Washington St Oregon City, OR 97045 Project Name: Inc Project Number: Q4 Project Manager: Kel

Industrial Wastewater Discharge Permit Q4 Sewer Discharge Sampling Kelly Herrod

Report Created: 01/28/10 13:56

#### Field Testing of Conventional Chemistry Parameters per APHA/EPA Methods **TestAmerica** Portland Analyte Method Result MDL\* MRL Units Dil Batch Prepared Analyzed Notes Water Sampled: 01/14/10 14:15 PTA0357-01 (Point of Compliance-Grab) 01/14/10 14:20 01/14/10 14:25 pН EPA 150.1 pH Units 1x 10A0396 6.42

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BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Metro S.Trnsfr Stn	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	01/28/10 13:56
	,		
Oil and Grease Analy	sis per EPA Method 1664	- Laboratory Quality Control Results	12 N & A

	Oil and Gr	ease Analysi	-	Method estAmerica			tory Qua	anty Co	ontro	I Results				
QC Batch: 10A0470	Water P	reparation M	lethod: O	&G prep (	CE									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	) Analyzed	Notes
Blank (10A0470-BLK1)								Extr	acted:	01/20/10 13	i:00			
Dil & Grease	EPA 1664	ND		5.00	mg/l	1x							01/21/10 08:06	
Blank (10A0470-BLK2)								Extr	acted:	01/20/10 13	6:00			
Dil & Grease (non-polar)	EPA 1664	ND		5.00	mg/l	lx							01/21/10 10:16	
LCS_(10A0470-BS1)								Extr	acted:	01/20/10 13	6:00			
Dil & Grease	EPA 1664	35.9			mg/l	lx		40.0	89.8%	(78-114)			01/21/10 08:06	
LCS (10A0470-BS2)								Extr	acted:	01/20/10 13	6:00			
Dil & Grease (non-polar)	EPA 1664	16.8			mg/l	lx		20.0	84.0%	(64-132)			01/21/10 10:16	
Matrix Spike (10A0470-MS1)				QC Source:	РТА0306-6	01		Extr	acted:	01/20/10 13	8:00			
Dil & Grease	EPA 1664	41.1			mg/l	lx	1.30	40.0	99.5%	(78-114)			01/21/10 08:06	
Matrix Spike (10A0470-MS2)				QC Source:	PTA0306-	01		Extr	acted:	01/20/10 13	<b>5:00</b>			
Dil & Grease (non-polar)	EPA 1664	17.7			mg/l	lx	2.30	20.0	77.0%	(64-132)			01/21/10 10:16	
Matrix Spike Dup (10A0470-MS	D1)			QC Source:	PTA0306-	01		Extr	acted:	01/20/10 13	<b>5:00</b>			
Dil & Grease	EPA 1664	41.0			mg/l	lx	1.30	40.0	99.2%	(78-114)	0.244	% (18)	01/21/10 08:06	
Matrix Spike Dup (10A0470-MS	5 <b>D2</b> )			QC Source:	PTA0306-0	01		Extr	acted:	01/20/10 13	6:00			
Oil & Grease (non-polar)	EPA 1664	18.6			mg/l	lx	2.30	20.0	81.5%	(64-132)	4.96%	6 (34)	01/21/10 10:16	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

THE LEADER IN ENVIRONMENTAL TESTING

	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	01/28/10 13:56

	Total Me	tals per EPA	12.22	es Metho estAmerica			ry Qualit	y Cont	rol R	esults				
QC Batch: 10A0604	Water P	reparation M	ethod: E	PA 200/30	05									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	) Analyzed	Notes
Blank (10A0604-BLK1)								Extr	acted:	01/25/10 10	;55			
Copper	EPA 200.8	ND		0.00200	mg/l	lx							01/25/10 21:24	
Lead		ND		0.00100	**	н							"	
Zinc	"	ND		0.0100	'n	"							01/25/10 16:33	
LCS (10A0604-BS1)								Extr	acted:	01/25/10 10	):55			
Copper	EPA 200.8	0.0938		0.00200	mg/l	lx		0.100	93.8%	(85-115)			01/25/10 21:28	
Lead	н	0.100		0.00100					100%				"	
Zinc	"	0.0872		0.0100	н	•		"	87.2%				01/25/10 16:36	
Duplicate (10A0604-DUP1)				QC Source:	PTA0350-	02		Extr	acted:	01/25/10 10	):55			
Соррег	EPA 200.8	ND		0.00200	mg/l	lx	ND				NR	(20)	01/25/10 22:05	
Lead		ND		0.00100		н	ND				NR	н	n	
Zinc	•	ND		0.0100		**	ND		·		NR	<b>H</b>	01/25/10 17:18	
Matrix Spike (10A0604-MS1)				QC Source:	PTA0350-	02		Extr	acted:	01/25/10 10	);55			
Соррег	EPA 200.8	0.0950		0.00200	mg/l	1x	ND	0.100	95.0%	(75-125)			01/25/10 22:09	
Lead	51	0.0985		0.00100	*	"	ND	*	98.5%				"	
Zinc		0.100		0.0100	"	"	ND		100%	(70-130)			01/25/10 17:21	
Matrix Spike (10A0604-MS2)	а			QC Source:	PTA0357-	02		Extr	acted:	01/25/10 10	0:55			
Copper	EPA 200.8	0.112		0.00200	mg/l	1x	0.0182	0.100	94.1%	(75-125)			01/25/10 22:38	
Lead	"	0.0992		0.00100	п	•	0.00705	*	92.2%				01/26/10 18:10	
Zinc		0.219		0.0100	н	"	0.125	н	93.8%	(70-130)			01/25/10 17:49	

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE

BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Metro S.Trnsfr Stn	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	01/28/10 13:56

	Total N	lercury per		thod 245.1 FestAmeric		•	Quality	Contro	l Res	ults				
QC Batch: 10A0353	Water P	reparation M	ethod: 1	EPA 245.1										
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Anałyzed	Notes
Blank (10A0353-BLK1)								Extr	acted:	01/15/10 10	0:36			
Mercury	EPA 245.1	ND		0.000200	mg/l	lx			'				01/15/10 14:31	
LCS (10A0353-BS1)				_				Extr	acted:	01/15/10 10	D <b>;3</b> 6			
Mercury	EPA 245.1	0.00484		0.000200	mg/l	lx		0.00500	96.8%	(85-115)			01/15/10 14:34	
LCS Dup (10A0353-BSD1)								Extra	acted:	01/15/10 10	0:36			
Mercury	EPA 245.1	0.00459		0.000200	mg/l	lx		0.00500	91.8%	(85-115)	5.33%	6 (20)	01/15/10 14:37	
Duplicate (10A0353-DUP1)				QC Source:	PTA0249	-01		Extr	acted:	01/15/10 10	0:36			
Mercury	EPA 245.1	ND		0.000200	mg/l	lx	ND				NR	(20)	01/15/10 14:39	
Matrix Spike (10A0353-MS1)	•			QC Source:	PTA0249-	-01		Extr	acted:	01/15/10 10	9:36			
Mercury	EPA 245.1	0.00443		0.000200	mg/l	lx	ND	0,00500	88.5%	(75-125)			01/15/10 14:42	
Matrix Spike Dup (10A0353-MS	SD1)			QC Source:	PTA0249-	-01		Extra	acted:	01/15/10 10	0:36			
Mercury	EPA 245.1	0.00456		0.000200	mg/ł	lx	ND	0,00500	91.1%	(75-125)	2.89%	6 (20)	01/15/10 14:45	

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Blank (10A0348-BLK1)

PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Extracted: 01/15/10 09:03

THE LEADER IN ENVIRONMENTAL TESTING

Republic Services-Metro S. 2001 Washington St Oregon City, OR 97045					
Cor	ventional Ch	emistry Paran	neters per Standard M TestAmerica Po	<b>Aethods - Laboratory Quality Contr</b> rtland	ol Results
QC Batch: 10A0348	Water	Preparation Me	ethod: General Prepar	ation	
Analyte	Method	Result	MDL* MRL U	nits Dil Source Spike % (Lim Result Amt REC	nits) % (Limits) Analyzed Notes

Biochemical Oxygen Demand	SM 5210B	ND	· ,	4.00	mg/l	lx							01/20/10 11:30	
LCS (10A0348-BS1)								Extr	acted:	01/15/10 09	9;03			
Biochemical Oxygen Demand	SM 5210B	207		4,00	mg/l	lx		198	105%	(85-115)			01/20/10 11:30	
Duplicate (10A0348-DUP1)				QC Source:	PTA0353-	01		Extr	acted:	01/15/10 09	):03			
Biochemical Oxygen Demand	SM 5210B	456		4.00	mg/l	lx	426				6.81%	6 (35)	01/20/10 11:30	
QC Batch: 10A0466	Water P	reparation M	lethod: G	eneral Pre	paration					<u> </u>				
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits	) Analyzed	Notes
Blank (10A0466-BLK1)								Extr	acted:	01/20/10 10	):50			
otal Suspended Solids	SM 2540D	ND		10.0	mg/l	lx							01/20/10 17:31	
LCS (10A0466-BS1)								Extr	acted:	01/20/10 10	0:50			
Total Suspended Solids	SM 2540D	60.0		10.0	mg/l	lx		60.0	100%	(80-120)			01/20/10 17:31	
Duplicate (10A0466-DUP1)				QC Source:	PTA0350-	01		Extr	acted:	01/20/10 10	0:50			

 Duplicate (10A0466-DUP1)
 QC Source:
 PTA0350-01
 Extracted:
 01/20/10 10:50

 Total Suspended Solids
 SM 2540D
 ND
 -- 10.0
 mg/l
 1x
 ND
 -- NR
 (20)
 01/20/10 17:31

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PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-Metro S.Trnsfr Stn	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	01/28/10 13:56

#### **Notes and Definitions**

#### Report Specific Notes:

ID6 This analyte was reported as ND based on the "total" result of ND. No additional analysis was performed. -

#### Laboratory Reporting Conventions:

DET	-	Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only.
ND	-	Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
NR/NA	-	Not Reported / Not Available
dry	-	Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
wet	-	Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
RPD		RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
MRL	-	METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
MDL*	-	METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. *MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
Dil	-	Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
Reporting Limits	-	Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.
Electronic Signature	-	Electronic Signature added in accordance with TestAmerica's <i>Electronic Reporting and Electronic Signatures Policy</i> . Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.

Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Client Name/Account #:	Republic	Service	es - Me	etro S	South													•	TU	RN		RO	UN	D	RE	QU	ES	T: 1	0	DA	1
Address:	2001 Was	shingtor	n St													Worl	c Oi	der	#:		2	A	0	3	5	7					
City/State/Zip:	Oregon (	City, OR	97045	5			··										Rep	ort	To:	Kel	lly H	lerr	od								
Project Manager:	Kelly Her	rod														ļ	nvo	lce	To:												
Telephone Number:	503-722-4	1656				Fa	ex N	o.:_								Т	A Q	uot	e #:	_											
Sampler Name: (Print)	Jeremy N	lorgan		a										_		:	Pro	ject	ID:	Ind	ustr	ial \	Nas	tew	ater	r Dis	cha	ırge	Per	mit	
Sampler Signature:		to the										Project #:																			
Tag ID:							Г	F	res	erva	ative		Т		Mat	ix			_			Ana	lyze	For							
	Date Sampled	Time Sampled	No. of Containers	Grab	Composite		1L Glass w/Hydrochloric Acid	250ml. Poly w/Nitric Acid	roly Unpreserved				Wastewater					O&G P/NP	Ś	Cu, Pb, Zn, Hg		S	Sampling-Comp								
Sample ID / Description					0			<u>2</u>	220	4	$\downarrow$	4	-		$\vdash$					ರ	В	TSS	Sa					$\square$	4	4	$\bot$
Point of Compliance-Grab		1415		X			X	4	╇	Ļ	$\square$	4	×		$\square$			X	<u>X</u>	_								$\square$	$ \downarrow$	$\perp$	Ц
Point of Compliance-Comp	1-14	1420	3		X			<u>x</u> j	<u>× ×</u>	4	$\square$	$\downarrow$	X	Ц						X	X	X	Х								
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							$\Box$					$\bot$		Ц																	
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							H	1	T	T	$\mathbf{H}$	十	1	Π		$\top$		1		-1						$\square$			+	╈	11
Special Instructions:					Leen L		╘╼╌┸			•	<u>1 1</u>			L1		أحجام						-		nme			l	sipt:		  .(	
Received by TestAmerica:	Date Time																	nµ	a	uit		pul			<u>арі.</u>			ł			
Jeremy Morgan		1 - 1 4 - 15 1420 Date Time																													
IN LAB	1-1	1-14 15:50																													

TestAmerica Portland
Sample Receiving Checklist
Work Order #: <u>PTA0357</u> Date/Time Received: <u>01/14/10</u> 15:50 Client Name and Project: <u>Republic Service</u> Metro - I WWDP
Time Zone: EDT/ESTCDT/CSTMDT/MSTRDT/PSTAKOTHER
Unpacking Checks:       Temperature out of Range:         Cooler #(s):
N/A Yes No Initials: Init
2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
$\mathbf{X}_{\mathbf{A}}$ $\mathbf{\Box}$ 3. Chain of Custody present? If no, document on NOD.
4. Bottles received intact? If no, document on NOD.
5. Sample is not multiphasic? If no, document on NOD.
6. Proper Container and preservatives used? If no, document on NOD.
7. pH of all samples checked and meet requirements? If no, document on NOD.
8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
9. HF Dilution required?
10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.
11. Did chain of custody agree with samples received? If no, document on NOD.
12. Is the "Sampled by" section of the COC completed?
13. Were VOA/Oil Syringe samples without headspace?
🕅 🔲 14. Were VOA vials preserved? 🗌 HCl 🗍 Sodium Thiosulfate 🗍 Ascorbic Acid
15. Did samples require preservation with sodium thiosulfate?
16. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.
<ul> <li>18. Is sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM before proceeding.</li> <li>In the interval of the</li></ul>
20. Was Standard Turn Around (TAT) requested?
$\square$ 21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM.

F:\Sample\_Receiving\Receiving\_Documents\Forms (effective 3/16/09)

Tes	stAmerica P	ortland
Sample	Receiving	g Checklist

Work Order #: PTA0357

#### Login Checks:

Initials

Yes	No //Y	
$\bowtie$	22. Sufficient volume provided for all analysis? If no, document on NOD & contact Pl	М.
Ū,	23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If	
	no, document on NOD and contact PM.	
X.	24. Did the chain of custody include "received by" and "relinquished by" signatures,	
	dates and times?	
	25. Were special log in instructions read and followed?	
X.	26. Were tests logged checked against the COC?	
	27. Were rush notices printed and delivered?	
政	28. Were short hold notices printed and delivered?	
	29. Were subcontract COCs printed?	
	30. Was HF dilution logged?	
		<ul> <li>22. Sufficient volume provided for all analysis? If no, document on NOD &amp; contact Pl</li> <li>23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If no, document on NOD and contact PM.</li> <li>24. Did the chain of custody include "received by" and "relinquished by" signatures, dates and times?</li> <li>25. Were special log in instructions read and followed?</li> <li>26. Were tests logged checked against the COC?</li> <li>27. Were rush notices printed and delivered?</li> <li>28. Were short hold notices printed and delivered?</li> <li>29. Were subcontract COCs printed?</li> </ul>

Labeling an	d Storage Checks:	Initials:	
N/A Yes N	0		
	31. Were the subcontracted samples/containers put in Sx fr	idge?	
	32. Were sample bottles and COC double checked for diss	olved/filtered metals?	
	33. Did the sample ID, Date, and Time from label match w	hat was logged?	
	34. Were Foreign sample stickers affixed to each container	and containers stored in	
	foreign fridge?		
	35. Were HF stickers affixed to each container, and contain	ners stored in Sx fridge?	
	36. Was an NOD for created for noted discrepancies and p	laced in folder?	

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).

F:\Sample\_Receiving\Receiving\_Documents\Forms (effective 3/16/09)



THE LEADER IN ENVIRONMENTAL TESTING

#### Sampling Documentation Form

**Client:** Republic Services – Metro South Site: Oregon City / Point Of Compliance Project: Industrial Wastewater Discharge Permit Time: 1300

Sampler: Jeremy Morgan Date: 1-13-10

#### Sample Matrix: Water

Sampling Method: Grab & Composite

#### Composite Sampling Equipment:

XISCO #: 8 Comp Samples/Day: 48/1 Start Time: 13 0 Stop Time: Sampler Calibration: 80ml Comp Time:\_

Grab Sampling Equipment: ISCO: yes Other: Grab Time: (415

#### Field Data:

PH Meter: Thermo Scientific Orion 3 Star
PH: 6,42 Time Taken: 1420
PH Calibration-7.00 buffer reading: 6.95
Slope: 27,1
PH Buffer 4: 9110061
PH Buffer 7: 9110062
PH Buffer 10: 91 (0063

Field Conditions:							
Weather:	🗆 Sunny	Partly cloudy	Cloudy	Snowing			
Rainfall:	Heavy	Continuous	Intermitte	nto Light	None		
			ar an de de la calancia de la calanc				

Sample Chara	cteristics:	· · - · - · - · - · - · - · - · -	· · · ·	
Color:	Odor: Yes	TSS:		
Sediment:	Foam:			

#### **Observations and Comments:**



PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

ORELAP#: OR100021

May 07, 2010

Kelly Herrod Republic Services-South Metro 2001 Washington St Oregon City, OR 97045

RE: Industrial Wastewater Discharge Permit

Enclosed are the results of analyses for samples received by the laboratory on 04/23/10 14:40. The following list is a summary of the Work Orders contained in this report, generated on 05/07/10 16:14.

If you have any questions concerning this report, please feel free to contact me.

Work Order PTD0708 Project Industrial Wastewater Dischar <u>ProjectNumber</u> Q4 Sewer Discharge Sampling

TestAmerica Portland

Becan L Come

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Brian Cone, Industrial Services Manager

THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South MetroProject Name:Industrial Wastewater Discharge Permit2001 Washington StProject Number:Q4 Sewer Discharge SamplingReport Created:Oregon City, OR 97045Project Manager:Kelly Herrod05/07/10 16:14

	ANALYTICAL REPO	ORT FOR SAMI	PLES	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Point of Compliance-Grab	PTD0708-01	Water	04/23/10 14:05	04/23/10 14:40
Point of Compliance-Comp	PTD0708-02	Water	04/23/10 14:00	04/23/10 14:40

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Brian Cone, Industrial Services Manager

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#### **Republic Services-South Metro**

2001 Washington St Oregon City, OR 97045 Project Name: Project Number: Project Manager:

Q4 Sewer Discharge Sampling Kelly Herrod

**Industrial Wastewater Discharge Permit** 

Report Created:

05/07/10 16:14

#### Analytical Case Narrative TestAmerica - Portland, OR

PTD0708

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132

BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

#### Republic Services-South Metro 2001 Washington St

Oregon City, OR 97045

Project Name: Project Number: Project Manager:

me: Industrial Wastewater Discharge Permit mber: Q4 Sewer Discharge Sampling nager: Kelly Herrod

Report Created: 05/07/10 16:14

Oil and Grease Analysis per EPA Method 1664 TestAmerica Portland												
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes		
PTD0708-01 (Point	of Compliance-Grab)		Wa	iter		Sampled: 04/23/10 14:05						
Oil & Grease	EPA 1664	ND		5,00	mg/l	lx	10E0148	05/06/10 12:00	05/06/10 15:30			
Oil & Grease (non-polar)	*	ND		5.00	н	"	"	"	· •			
Oil & Grease (polar)	[CALC]	ND		5.00		"	[CALC]		*			

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#### **Republic Services-South Metro**

2001 Washington St Oregon City, OR 97045 Project Name:Industrial Wastewater Discharge PermitProject Number:Q4 Sewer Discharge SamplingProject Manager:Kelly Herrod

Report Created:

05/07/10 16:14

Total Metals per EPA 200 Series Methods TestAmerica Portland											
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
PTD0708-02	(Point of Compliance-Comp)	Water				Sam	pled: 04/23/				
Copper	EPA 200.8	0.00736		0.00200	mg/l	١x	10D0864	04/28/10 12:12	05/03/10 21:21		
Lead	н.	0.00427		0.00100	•			۰.	**		
Zinc		0.0397		0.0100	••			"	n		

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Republic Services-South MetroProject Name:Industrial Wastewater Discharge Permit2001 Washington StProject Number:Q4 Sewer Discharge SamplingReport Created:Oregon City, OR 97045Project Manager:Kelly Herrod05/07/10 16:14

Total Mercury per EPA Method 245.1 TestAmerica Portland											
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
PTD0708-02	(Point of Compliance-Comp)	-	W	ater		Sampled: 04/23/10 14:00					
Mercury	EPA 245.1	ND		0.000200	mg/l	lx	10E0095	05/04/10 16:53	05/05/10 10:28		

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Republic Services-South Metro

2001 Washington St Oregon City, OR 97045 Project Name: Industri Project Number: Q4 Sewe Project Manager: Kelly He

**Industrial Wastewater Discharge Permit** Q4 Sewer Discharge Sampling Kelly Herrod

Report Created: 05/07/10 16:14

Conventional Chemistry Parameters per Standard Methods TestAmerica Portland												
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes		
PTD0708-02 (Point of Con	npliance-Comp)		Wa	ter		Sam	pled: 04/23/	10 14:00				
Biochemical Oxygen Demand	SM 5210B	40.9		4.00	mg/l	lx	10 <b>D</b> 0726	04/23/10 15:26	04/28/10 09:00			
Total Suspended Solids	SM 2540D	70.0		10.0			10 <b>D0907</b>	04/29/10 10:50	04/29/10 16:46			

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BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Peri	nit
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	05/07/10 16:14

Field Testing of Conventional Chemistry Parameters per APHA/EPA Methods TestAmerica Portland											
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes	
PTD0708-01	(Point of Compliance-Grab)		Water Sampled: 04/23/10 14:05								
рH	EPA 150.1	6.92			pH Units	lx	10 <b>D</b> 0799	04/23/10 14:10	04/23/10 14:15		

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Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	05/07/10 16:14

	Oil and Gre	ease Analysi		Method 1 FestAmerica		abora	tory Qua	ality Contro	Result				
QC Batch: 10E0148	Water P	reparation M	lethod: C	)&G prep (	CE								
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike % Amt REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10E0148-BLK1)								Extracted:	05/06/10 1	1:00			
Oil & Grease	EPA 1664	ND		5.00	mg/l	lx						05/06/10 15:30	
Blank (10E0148-BLK2)		-						Extracted:	05/06/10 1	1:00			
Oil & Grease (non-polar)	EPA 1664	ND		5.00	mg/l	lx						05/06/10 15:30	
LCS (10E0148-BS1)								Extracted:	05/06/10 1	1:00			
Oil & Grease	EPA 1664	37.8			mg/l	lx		40.0 94.5%	(78-114)			05/06/10 15:30	
LCS (10E0148-BS2)								Extracted:	05/06/10 1	1:00			
Oil & Grease (non-polar)	EPA 1664	15.3			mg/l	İx	·	20.0 76.5%	(64-132)			05/06/10 15:30	
Matrix Spike (10E0148-MS	1)			QC Source:	PTD0708-0	1		Extracted:	05/06/10 1	1;00			
Oil & Grease	EPA 1664	41.8			mg/l	lx	4.30	40.0 93.8%	(78-114)			05/06/10 15:30	
Matrix Spike (10E0148-MS)	2)			QC Source:	PTD0708-0	1		Extracted:	05/06/10 1	1:00			
Oil & Grease (non-polar)	EPA 1664	21.4			mg/l	lx	3.40	20.0 90.0%	(64-132)			05/06/10 15:30	
Matrix Spike Dup (10E0148	B-MSD1)			QC Source:	PTD0708-0	1		Extracted:	05/06/10 1	1:00			
Oil & Grease	EPA 1664	41.9			mg/l	lx	4.30	40.0 94.0%	(78-114)	0.239%	6 (18)	05/06/10 15:30	
Matrix Spike Dup (10E0148	B-MSD2)			QC Source:	PTD0708-0	1		Extracted:	05/06/10 1	1:00	ar.		
Oil & Grease (non-polar)	EPA 1664	17.8			ma/l		3.40	20.0 72.0%	(64.122)	10.49/	(24)	05/06/10 15:30	

Oil & Grease (non-polar) EPA 1664 17.8 --- mg/l lx 3.40 20.0 72.0% (64-132) 18.4% (34) 05/06/10 15:30

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9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

2001 Washington St Project N	umber: Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045 Project M	anager: Kelly Herrod	05/07/10 16:14

		Total Me	tals per EPA		es Metho estAmeric			y Qualit	y Conti	rol R	esults			en de Legende Legende Legende	
QC Ba	tch: 10D0864	Water P	reparation M	ethod: E	PA 200/30	05			· ·						
Analyte		Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10D	0864-BLK1)								Extra	acted:	04/28/10 12	:12			
Copper		EPA 200.8	ND		0.00200	mg/l	lx				<b></b> '			05/03/10 19:40	
Lead			ND		0.00100	"	•	·						н.	
Zinc		*	ND		0.0100	н	"				·			н	
LCS (10D0	864-BS1)								Extra	acted:	04/28/10 12	:12		1. A.	
Copper		EPA 200.8	0.101		0.00200	mg/l	lx		0.100	101%	(85-115)			05/03/10 19:48	
Lead		a .	0.0998		0.00100	"	"		"	99.8%				•	
Zinc		e	0.0985	"	0.0100	"	н		۳.	98.5%	н				
Duplicate (	10D0864-DUP1)				QC Source:	PTD0660-	01		Extra	acted:	04/28/10 12	:12			
Copper		EPA 200.8	0.0134		0.00200	mg/l	lx	0.0152		·		12.3%	(20)	05/03/10 20:50	
Lead			0.00141		0.00100	•		0.00154				8.81%		**	
Zinc		•	0.0366		0.0100	۰.	"	0.0416				12.9%	. "		
															· · (
Matrix Spik	e (10D0864-MS1)				QC Source:	PTD0660-	01		Extra	acted:	04/28/10 12	:12			`
Copper		EPA 200.8	0.107		0.00200	mg/l	lx	0.0152	0.100	91.7%	(75-125)			05/03/10 20:58	
Lead		и	0.0926		0.00100	"	."	0.00154	**	91.0%				"	
Zinc		11	0.133		0.0100	"		0.0416		91.1%	(70-130)			м	
Matrix Spik	e_(10D0864-MS2)				QC Source:	PTD0779-	01		Extra	acted:	04/28/10 12	:12			
Copper		EPA 200.8	0.103		0.00200	mg/l	1x	0.00157	0.100	101%	(75-125)			05/03/10 22:54	

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0.00100

0.0100

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0.000320

0.0196

" 95.6%

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101% (70-130)

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0.0959

0.120

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Lead

Zinc

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Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	05/07/10 16:14
Total Mercury per EPA M	ethod 245.1 - La	boratory Quality Control Results	

		· · · ·	1	[estAmerica	a Portland								
QC Batch: 10E0095	Water P	reparation M	ethod: E	PA 245.1									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike % Amt REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10E0095-BLK1)								Extracted:	05/04/10 1	6:53			
Mercury	EPA 245,1	ND		0.000200	mg/l	1 <b>x</b>						05/05/10 10:09	
LCS_(10E0095-BS1)								Extracted:	05/04/10 1	6:53			
Mercury	EPA 245.1	0.00510		0.000200	mg/l	lx		0.00500 102%	(85-115)			05/05/10 10:12	
LCS Dup (10E0095-BSD1)								Extracted:	05/04/10 1	6:53			
Mercury	EPA 245.1	0.00494		0.000200	mg/l	lx		0.00500 98.9%	(85-115)	3.19%	(20)	05/05/10 10:15	
Duplicate (10E0095-DUP1)				QC Source:	PTD0631-	01		Extracted:	05/04/10 1	6;53			
Mercury	EPA 245.1	ND		0.000200	mg/l	lx	ND			NR	(20)	05/05/10 10:17	
Matrix Spike (10E0095-MS1)				QC Source:	PTD0631-	01		Extracted:	05/04/10 1	6;53			
Мегсигу	EPA 245.1	0.00488		0.000200	mg/l	1x	ND	0.00500 97.7%	(75-125)			05/05/10 10:20	
Matrix Spike Dup (10E0095-MS	5D1)			QC Source:	PTD0631-	01		Extracted:	05/04/10 1	6:53			
Mercury	EPA 245.1	0.00477		0.000200	mg/l	1x	ND	0.00500 95.4%	(75-125)	2.34%	(20)	05/05/10 10:23	

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**Republic Services-South Metro Industrial Wastewater Discharge Permit** Project Name: Report Created: 2001 Washington St Project Number: Q4 Sewer Discharge Sampling Oregon City, OR 97045 Project Manager: Kelly Herrod 05/07/10 16:14 Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results TestAmerica Portland QC Batch: 10D0726 Water Preparation Method: **General Preparation** Spike Amt Source Result % <sup>%</sup> (Limits) Analyzed Analyte MDL\* Dil (Limits) Notes Method Result MRL Units REC Blank (10D0726-BLK1) Extracted: 04/23/10 12:29 Biochemical Oxygen Demand SM 5210B ND 4.00 mg/l 1x 04/28/10 09:00 -------LCS (10D0726-BS1) Extracted: 04/23/10 12:29 Biochemical Oxygen Demand 04/28/10 09:00 SM 5210B 206 ---4.00 mg/l 1x 198 104% (85-115) .... Duplicate (10D0726-DUP1) QC Source: PTD0691-01 Extracted: 04/23/10 12:29

Biochemical Oxygen Demand SM 5210B 6.00 --- 4.00 mg/l lx 5.33 -- -- 11.8% (35) 04/28/10 09:00

QC Batch: 10D0907	Water P	reparation M	lethod: Ge	eneral Pro	eparation									<u></u>
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10D0907-BLK1)								Extr	acted:	04/29/10 10	);50			
Total Suspended Solids	SM 2540D	ND		10.0	mg/l	lx							04/29/10 16:46	
LCS (10D0907-BS1)								Extr	acted:	04/29/10 10	0;50			
Total Suspended Solids	SM 2540D	50.0		10.0	mg/l	lx		60.0	83.3%	(80-120)		'	04/29/10 16:46	
Duplicate (10D0907-DUP1)				QC Source:	PTD0834-0	. 1		Extr	acted:	04/29/10 1	0:50			
Total Suspended Solids	SM 2540D	10.0		10.0	mg/l	1x	10.0				0.00%	6 (20)	04/29/10 16:46	

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Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	05/07/10 16:14

#### Notes and Definitions

Report Specific Notes:

None

Laboratory Reporting Conventions:

DET - Analyte DETECTED at or above the Reporting Limit.	Qualitative Analyses only.
---	----------------------------

- ND Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate).
- NR/NA \_ Not Reported / Not Available
- dry Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight.
- Wet Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported on a Wet Weight Basis.
- RPD RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries).
- MRL METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.
- MDL\* METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.
- Dil Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.
- Reporting Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

 Electronic
 - Electronic Signature added in accordance with TestAmerica's Electronic Reporting and Electronic Signatures Policy.

 Signature
 Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory.

 Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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**CHAIN OF CUSTODY RECORD** 

### <u>TestAmerica</u>

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THE LEADER IN ENVIRONMENTAL TESTING		: Service	es - M	letro	Sout	h ·														TI	JR	NA	RC		DV	RE		JES	ST:	10	DA	Y
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City/State/Zip:				5																	Ke	lly	Her	rod								
Project Manager:													-							To:												
Telephone Number:						Fa	x N	o.:									TA	١Q	uot	e #:												
Sampler Name: (Print)				_				-									F	ro	iect	ID:	lnc	lust	rial	Was	stew	vate	r Di	sch	arge	Pe	rmit	
Sampler Signature:		1		2												_				t #:												
Tag ID:	/	2						F	ores	serv	/ativ	e			N	 Aatri	_		•			_	Ana	lyze	For	r:						
Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite		1L Glass w/Hydrochloric Acid	250mL Poly w/Nthic Acid		250mL Poly Unpreserved				Wastewater						FT-PH: 6, 92	Cu, Pb, Zn, Hg		TSS	Sampling-Comp								
Point of Compliance-Grab	4-23	1405	3	x			x	1	Т	T	Τ	Π		x			Π		X	X						$\square$	$\square$	$\square$	$\square$		T	$\square$
Point of Compliance-Comp	4-23	1400	3		Х			x	x	x				x			Π	1			х	x	x	х					$\square$	T	T	Π
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Special Instructions:	I	l				<i></i>			_	_		11			_		L			_	Lai	ora	itory	/ Co	mm	ents	 s:					
																					Те	mp	era	atur	εL	Jpo	n F	lec	eipt	:2	) ,	1
Received by TestAmerica:	Da	te	Ti	me							•																					
Jeremy Morgan	4-23	5-10	14	05																								•				
	Da	te	Ti	me																												
IN LAB	4-23	- 10	14	40									,																			

TestAmerica Portland
Sample Receiving Checklist
Work Order #: <u>PTD0708</u> Date/Time Received: <u>412310</u> 440 Client Name and Project: <u>Republic Services</u>
Time Zone: DEDT/EST DCDT/CST MDT/MST PDT/PST DAK OTHER
Unpacking Checks:       Temperature out of Range:         Cooler #(s):
N/A Yes No Initials:
□ □ 1. If ESI client, were temp blanks received? If no, document on NOD.
$\square$ $\square$ 2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
3. Chain of Custody present? If no, document on NOD.
4. Bottles received intact? If no, document on NOD.
5. Sample is not multiphasic? If no, document on NOD.
6. Proper Container and preservatives used? If no, document on NOD.
□ . PH of all samples checked and meet requirements? If no, document on NOD.
8. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
9. HF Dilution required?
<ul> <li>10. Sufficient volume provided for all analysis? If no, document on NOD and consult PM before proceeding.</li> <li>11. Did chain of custody agree with samples received? If no, document on NOD.</li> </ul>
☐ 12. Is the "Sampled by" section of the COC completed? ☐ 13. Were VOA/Oil Syringe samples without headspace?
Image: Second Synthesis without neuropace?         Image: Second
15. Did samples require preservation with sodium thiosulfate?
<ul> <li>If yes to #15, was the residual chlorine test negative? If no, document on NOD.</li> </ul>
<ul> <li>☐ 16. If yes to #15, was the residual enformer test negative. If no, document on NOD.</li> <li>☐ 17. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.</li> </ul>
□ 17. Are dissolved/field intered intered interes southers seemicin free in he, document of 1000 in the southers of the southers in the interest interest in the interest interest in the interest interest interest in the interest interes
no, document on NOD and contact PM before proceeding.
20. Was Standard Turn Around (TAT) requested?
21. Receipt date(s) < 48 hours past the collection date(s)? If no, notify PM.

F:\Sample\_Receiving\Receiving\_Documents\Forms (effective 3/16/09)

### TestAmerica Portland Sample Receiving Checklist

١

Work Order #: PTD0708

Login Checks:	Initials:
N/A Yes No	U
22. Sufficient volume provided for all analysis? If no, doc	ument on NOD & contact PM.
Z 🗌 🔲 23. Sufficient volume provided for client requested MS/M	ISD or matrix duplicates? If
no, document on NOD and contact PM.	
24. Did the chain of custody include "received by" and "re	elinquished by" signatures,
dates and times?	
□ Z □ 25. Were special log in instructions read and followed?	· · ·
26. Were tests logged checked against the COC?	
27. Were rush notices printed and delivered?	· ·
28. Were short hold notices printed and delivered?	
29. Were subcontract COCs printed?	
30. Was HF dilution logged?	•
Labeling and Storage Checks:	Initiats
N/A Yes No	<b>V</b>
31. Were the subcontracted samples/containers put in Sx	fridge?
2 32. Were sample bottles and COC double checked for dis	solved/filtered metals?
33. Did the sample ID, Date, and Time from label match	what was logged?
🛛 🔲 🔲 34. Were Foreign sample stickers affixed to each contain	er and containers stored in
foreign fridge?	
2 35. Were HF stickers affixed to each container, and conta	iners stored in Sx fridge?

☑ □ 36. Was an NOD for created for noted discrepancies and placed in folder?

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).



#### **Sampling Documentation Form**

Client: Republic Services – Metro South	Sampler: Jeremy Mo	organ
Site: Oregon City / Point Of Compliance	Date: 4-22-10	4-23-10
Project: Industrial Wastewater Discharge Permit	Time: 1345 /	1350
	· · · · · · · · · · · · · · · · · · ·	

### Sample Matrix: Water

Sampling Method: Grab & Composite

### Composite Sampling Equipment:

KISCO #: <u>8</u> Comp Samples/Day: <u>48 / 1</u> Start Time: <u>1350</u> Stop Time: <u>1350</u> Stop Time: <u>1350</u> Stop Time: <u>80m</u> ( Comp Time: <u>80m</u> (

Grab Sampling Equipment: ISCO: <u>yzs</u> Other: \_\_\_\_\_ Grab Time: <u>1405</u>

### Field Data:

PH Meter: Thermo Scientific Orion 3 Star PH:  $\_6.92$  Time Taken:  $\_14/0$ PH Calibration-7.00 buffer reading:  $\_6.93$ Slope:  $\_102.2$ PH Buffer 4:  $\_2110061$ PH Buffer 7:  $\_2110062$ PH Buffer 10:  $\_2110063$ 

Field Cond	itions:				
Weather:	Sunny	ta Partly cloudy ا	Cloudy	Snowing	
Rainfall:	Heavy	Continuous	Intermitter	nto Light	None
					,

Sample Characte	eristics:		• ·
Color: Yz S	Odor: 1+5	TSS:	
Sediment:	Foam:		

#### **Observations and Comments:**



PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210 ORELAP#: OR100021

July 23, 2010

Kelly Herrod Republic Services-South Metro 2001 Washington St Oregon City, OR 97045

**RE:** Industrial Wastewater Discharge Permit

Enclosed are the results of analyses for samples received by the laboratory on 07/09/10 14:10. The following list is a summary of the Work Orders contained in this report, generated on 07/23/10 15:52.

If you have any questions concerning this report, please feel free to contact me.

Work Order PTG0268 Project Industrial Wastewater Dischar <u>ProjectNumber</u> Q3 Sewer Discharge Sampling

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Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q3 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	07/23/10 15:52

	ANALYTICAL REPO	PLES		
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Point of Compliance-Grab	PTG0268-01	Water	07/09/10 13:00	07/09/10 14:10
Point of Compliance-Comp	PTG0268-02	Water	07/09/10 12:55	07/09/10 14:10

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#### **Republic Services-South Metro**

2001 Washington St Oregon City, OR 97045 Project Name: I Project Number: ( Project Manager: I

**Industrial Wastewater Discharge Permit** Q3 Sewer Discharge Sampling

Kelly Herrod

Report Created: 07/23/10 15:52

Oil and Grease Analysis per EPA Method 1664 TestAmerica Portland													
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes			
PTG0268-01 (Point of Co	mpliance-Grab)		Wa	ter		Sam	pled: 07/09/	10 13:00					
Oil & Grease	EPA 1664	6.44		5.56	mg/l	lx	10G0329	07/12/10 13:05	07/13/10 14:57	RL4			
Oil & Grease (non-polar)	н	ND		5,56		"		•	07/13/10 16:57				
Oil & Grease (polar)	[CALC]	6.44		5,56	"	н	[CALC]	"	H				

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Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q3 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	07/23/10 15:52

		Total Metals per EPA 200 Series Methods TestAmerica Portland													
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes					
PTG0268-02	(Point of Compliance-Comp)		W	ater		Sam	pled: 07/09/	10 12:55							
Copper	EPA 200.8	0.0348		0.0100	mg/l	5x	10G0437	07/15/10 09:19	07/16/10 03:15						
Lead	11	0.0237		0.00500	"			"							
Zinc	11	0.397		0,0500	*	*		"	**						

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Page 4 of 12

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#### **Republic Services-South Metro**

2001 Washington St Oregon City, OR 97045 Project Name: Project Number: Project Manager:

**Industrial Wastewater Discharge Permit** Q3 Sewer Discharge Sampling Kelly Herrod

Report Created: 07/23/10 15:52

	Total Mercury per EPA Method 245.1 TestAmerica Portland											
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	I	Notes	
PTG0268-02	(Point of Compliance-Comp)		W	ater		Sam	pled: 07/09/	10 12:55				
Mercury	EPA 245.1	ND		0.000200	mg/l	lx	10G0679	07/22/10 15:05	07/22/10 16:05			

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### **Republic Services-South Metro**

2001 Washington St

Oregon City, OR 97045

Project Name: Project Number: Project Manager:

**Industrial Wastewater Discharge Permit** Q3 Sewer Discharge Sampling Kelly Herrod

Report Created: 07/23/10 15:52

	Conventional Chemistry Parameters per Standard Methods TestAmerica Portland												
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes			
PTG0268-02 (Point of Com	pliance-Comp)		Wa	iter		Sam	pled: 07/09/	10 12:55					
<b>Biochemical Oxygen Demand</b>	SM 5210B	552		4.00	mg/l	lx	10G0261	07/09/10 15:33	07/14/10 09:29				
Total Suspended Solids	SM 2540D	171		28.6	•	W	10G0453	07/15/10 12:08	07/15/10 18:23				

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Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q3 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	07/23/10 15:52

	Field Testing	of Conv	entional		stry Par erica Portl		rs per AP	PHA/EPA M	lethods	
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTG0268-01	(Point of Compliance-Grab)		Wa	ter		Sam	pled: 07/09/	10 13:00		
nН	EPA 150,1	5.87	*		pH Units	lx	10G0443	07/09/10 13:05	07/09/10 13:10	

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Republic Services-South Metro	Project Name:	Industriał Wastewater Discharge Permit	·····
2001 Washington St	Project Number:	Q3 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	07/23/10 15:52

	Oil and Gr	ease Analysi	•	Method TestAmerica			itory Qu	ality Co	ontro	l Results				
QC Batch: 10G0329	Water I	Preparation N	lethod: C	&G prep (	CE									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limit	s) Analyzed	Notes
Blank (10G0329-BLK1)								Extr	acted:	07/12/10 10	:00			
Oil & Grease	EPA 1664	ND		5.00	mg/l	lx							07/13/10 14:57	
Oil & Grease (non-polar)		ND		5.00	н	*							07/13/10 16:57	
Blank (10G0329-BLK2)								Extr	acted:	07/12/10 10	:00			
Oil & Grease	EPA 1664	ND		5.00	mg/l	lx							07/13/10 16:57	
Oil & Grease (non-polar)	*	ND		5.00	11		-					` <u></u>		
LCS (10G0329-BS1)								Extr	acted:	07/12/10 10	:00			
Oil & Grease	EPA 1664	36.8			mg/l	1x		40.0	92.0%	(78-114)			07/13/10 14:57	· · ·
LCS (10G0329-BS2)								Extr	acted:	07/12/10 10	;00			
Oil & Grease (non-polar)	EPA 1664	15.0			mg/l	lx		20.0	75.0%	(64-132)			07/13/10 16:57	
Matrix Spike (10G0329-MS1)				QC Source:	PTG0268-	01		Extr	acted:	07/12/10 10	:00			i
Oil & Grease	EPA 1664	26.9			mg/l	lx	6.44	40.0	51.1%	(78-114)			07/13/10 14:57	RL4, M8
Matrix Spike (10G0329-MS2)				QC Source:	PTG0268-	01		Extr	acted:	07/12/10 10	:00			
Oil & Grease (non-polar)	EPA 1664	10.2			mg/l	1x	ND <sup>·</sup>	20.0	51.1%	(64-132)			07/13/10 16:57	M
Matrix Spike Dup (10G0329-MS	SD1)			QC Source:	PTG0268-	01		Extr	acted:	07/12/10 10	:00			
Oil & Grease	EPA 1664	29.3			mg/l	1x	6.44	40.0	57.2%	(78-114)	8.70%	5 (18)	07/13/10 14:57	RL4, M8
Matrix Spike Dup (10G0329-MS	SD2)			QC Source:	PTG0268-	01		Extr	acted:	07/12/10 10	):00			
Oil & Grease (non-polar)	EPA 1664	8.78			mg/l	lx	ND			(64-132)		5 (34)	07/13/10 16:57	M
on a orease (non-polar)	EPA 1004	8.78			mg/I	Ix	ND	20.0	43.9%	(64-132)	15,2%	a (34)	07/13/10 16:57	

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<b>Republic Services-South Metro</b>	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q3 Sewer Discharge Sampling	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	07/23/10 15:52

	Total Me	tals per EP		es Metho estAmerica			ry Qualit	y Cont	rol R	esults				
QC Batch: 10G0437	Water P	reparation M	lethod: E	PA 200/30	05									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10G0437-BLK1)								Extr	acted:	07/15/10 09	9:19			
Copper	EPA 200.8	ND		0.00200	mg/l	1x		,					07/16/10 02:14	
Lead .		ND		0.00100	н								11	
Zinc	"	ND		0.0100	"	*							u	
LCS (10G0437-BS1)								Extr	acted:	07/15/10 09	9:19			
Copper	EPA 200.8	0.0988		0.00200	mg/l	1x		0.100	98.8%	(85-115)			07/16/10 02:18	
Lead	*	0.0998		0.00100	۳.	н		"	99.8%				*	
Zinc	"	0.0912		0.0100	**				91.2%	и				
Duplicate (10G0437-DUP1)				QC Source:	PTG0205	-02		Exti	acted:	07/15/10 09	9:19			
Copper	EPA 200.8	0.00358		0.00200	mg/l	lx	0.00396				10.1%	6 (20)	07/16/10 02:25	
Lead	n	ND		0.00100		•	ND				NR	"	н	
Zinc	u	ND		0.0100	*		ND				2,09%	é "	н	
Matrix Spike (10G0437-MS1)				QC Source:	PTG0205	5-03		Exti	acted:	07/15/10 09	9:19		-	
Copper	EPA 200.8	0.103		0.00200	mg/l	lx	0.00337	0,100	99.5%	(75-125)			07/16/10 02:37	
Lead		0.106		0.00100	н		0.00396	"	102%	н				
Zinc	и	0.585		0.0100			0.516		69.0%	(70-130)				MHA

Matrix Spike (10	G0437-MS2)	QC Source: PTG0377-01					Extracted: 07/15/10 09:19						
Copper		EPA 200.8	0.446	 0.00200	mg/l	lx	0.354	0,100	92.4%	(75-125)			07/16/10 03:23
Lead		*	0.0960	 0.00100		"	ND	и	96.0%	•			
Zinc	×	"	0.0958	 0.0100		"	ND	н	95.8%	(70-130)			n

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BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Perr	nit
2001 Washington St Oregon City, OR 97045	Project Number: Project Manager:	Q3 Sewer Discharge Sampling Kelly Herrod	Report Created: 07/23/10 15:52
Total Mercury per I	EPA Method 245.1 - La	boratory Quality Control Results	

		5 A		TestAmeric	a Portlanc	1							- 1751 
QC Batch: 10G0679	Water P	reparation M	lethod: E	EPA 245.1									
nalyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike % Amt REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10G0679-BLK1)								Extracted:	07/22/10 1	5:05			
Mercury	EPA 245.1	ND		0.000200	mg/l	lx						07/22/10 15:49	
LCS (10G0679-BS1)								Extracted:	07/22/10 1:	5:05		•	
Aercury	EPA 245.1	0.00525		0.000200	mg/l	lx		0.00500 105%	(85-115)			07/22/10 15:51	
LCS Dup (10G0679-BSD1)								Extracted:	07/22/10 1	5:05			
Mercury	EPA 245.1	0.00514		0.000200	mg/l	1x		0.00500 103%	(85-115)	2.01%	(20)	07/22/10 15:54	
Duplicate (10G0679-DUP1)				QC Source:	PTG0425-	-06		Extracted:	07/22/10 1	5:05			
Mercury	EPA 245.1	ND		0.000200	mg/l	lx	ND			NR	(20)	07/22/10 15:57	
Matrix Spike (10G0679-MS1)				QC Source:	PTG0425-	-06		Extracted:	07/22/10 1	5:05			· .
Mercury	EPA 245.1	0.00498		0.000200	mg/l	1x	ND	0.00500 99.6%	(75-125)			07/22/10 16:00	
Matrix Spike Dup (10G0679-MS	D1)			QC Source:	PTG0425-	-06		Extracted:	07/22/10 1	5:05			
Mercury	EPA 245.1	0.00508		0.000200	mg/l	lx	ND	0.00500 102%	(75-125)	1.88%	(20)	07/22/10 16:02	

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Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit		
2001 Washington St	Project Number:	Q3 Sewer Discharge Sampling	Report Created:	
Oregon City, OR 97045	Project Manager:	Kelly Herrod	07/23/10 15:52	

	irenirenire Che			estAmeric				- <b>, ,</b>						
QC Batch: 10G0261	Water P	reparation M	lethod: G	eneral Pre	paration									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10G0261-BLK1)								Extra	acted:	07/09/10 12	2:04			
Biochemical Oxygen Demand	SM 5210B	ND		4.00	mg/l	1x							07/14/10 09:29	
LCS (10G0261-BS1)								Extra	acted:	07/09/10 12	2:04			
Biochemical Oxygen Demand	SM 5210B	213		4.00	mg/l	lx		198	108%	(85-115)			07/14/10 09:29	
Duplicate (10G0261-DUP1)				QC Source:	PTG0221	-01		Extra	acted:	07/09/10 12	2:04			
Biochemical Oxygen Demand	SM 5210B	250		4.00	mg/l	lx	254				1.81%	6 (35)	07/14/10 09:29	
QC Batch: 10G0453	Water P	reparation M	lethod: G	eneral Pre	eparation									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	) Analyzed	Notes
Blank (10G0453-BLK1)					-			Extra	acted:	07/15/10 12	2:08			
otal Suspended Solids	SM 2540D	ND		10.0	mg/l	lx							07/15/10 18:23	
LCS (10G0453-BS1)								Extr	acted:	07/15/10 12	2;08			
Total Suspended Solids	SM 2540D	60.0		10.0	mg/l	lx		60.0	100%	(80-120)			07/15/10 18:23	
Duplicate (10G0453-DUP1)				QC Source:	PTG0377-	-01		Extr	acted:	07/15/10 12	2:08			
Total Suspended Solids	SM 2540D	ND		10.0	mg/l	lx	ND				NR	(20)	07/15/10 18:23	

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**Republic Services-South Metro Industrial Wastewater Discharge Permit** Project Name: 2001 Washington St Project Number: Q3 Sewer Discharge Sampling Report Created: Oregon City, OR 97045 Project Manager: Kelly Herrod 07/23/10 15:52 **Notes and Definitions** Report Specific Notes: M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS). MHA Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS). RL4 Reporting limit raised due to insufficient sample volume. Laboratory Reporting Conventions: Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only. DET ND Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate). NR/NA Not Reported / Not Available dry Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight. Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported wet on a Wet Weight Basis. RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries). RPD

MRL - METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table.

MDL\* - METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B.
 \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results.

Dil - Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data.

Reporting - Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and percent solids, where applicable.

Electronic - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Signature Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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CHAIN OF	CUSTODY	RECORD
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THE LEADER IN ENVIRONMENTAL TESTING       Image: Client Name/Account #: Republic Services - Metro South         Address:       2001 Washington St         City/State/Zip:       Oregon City, OR 97045         Project Manager:       Kelly Herrod		10		<u></u>
Address:       2001 Washington St       Work Order#:         City/State/Zip:       Oregon City, OR 97045       Report To:       Kelly Herrod				
City/State/Zip: Oregon City, OR 97045 Report To: Kelly Herrod	arge			
	arge			
Project Manager: Kelly Herrod	arge			
	arge			
Telephone Number:   503-722-4656   Fax No.:   TA Quote #:	arge			—
Sampler Name: (Print) Jeremy Morgan Project ID: Industrial Wastewater Disch		Per	mit	
Sampler Signature: Project #:				
Tag ID: Preservative Matrix Analyze For:	r <del></del> r	-1	<u> </u>	
Sampled       Image: Sampled       Image: Sampled       No. of Containers       Grab       Composite       Composite       Sampled       Increaserved       250mL Poly Unpreserved       250mL Poly Unpreserved				
Point of Compliance-Grab 7-9 1300 3 X X X X X X X X X	$\square$		++	
Point of Compliance-Comp 7-9 1255 3 X X X X X X X X X X X X			11	
		+	++	-
		+	++	
┝╍╍╍╍╍╺╴┥╴╍╌┝╶╴╌┝┼╌╴┼╌╬┈┠╍╍┝╶┫┍┿╬┼┼┼┼┼╢┼┨┽┥╎┼┠╴┟┨╴┝╴╎╶╿╶╄╼╄╌╢╴┾╶╢╴	┝╌╋	┿	++	-
┝─────┼──┼─┼─┼─┼─┼─┼─┼┼┼┼┼┼╎┼╎┼╎┼╎┼╎┼╎┼╎	-+-		++	
╞╼╾╼╴╼╴╼╼╌╞╼╴╌╞╴╼╈╌╢╴╂╌┾╼┛┽╎╂╞┼┠┼┫┼┤┼┨╎┫╵┥┾┥╄┽╎┠┢┧┾╸	┝┼╴	+	┽┼	_
┝╌╍╴╍╍╴╍╍┾╴╼╌┾╾╌┾╴╬╍┼╌┾╴╉┽┼┾┝┼╏┽╉┼╅┼╆┟┲┼╼┽╶┽┽┽┼┼┼	┝──╄╴		++	_
┝─────	-+		╉╋	4
┝─────┝──┼─┽╎╎┼┽┫┽╎┽┟╎┤┨┼┼┼┼╋┱╋╋╋╋╋┥┥┥┼	┝─┼╴		┼┼	_
			Ц	
Special Instructions: Laboratory Comments: Temperature Upon Rec	eipt:	1.	.Y	
Received by TestAmerica: Date Time				
Jeremy Morgan 7-9-10 1300				
Date Time				
IN LAB 7-9-10 1410			-	

TestAmerica Portland Sample Receiving Check	klist
Work Order #: PTG10268 Date/Time Received Client Name and Project: Republic Services	4 1
Time Zone: DEDT/EST DCDT/CST MDT/MST PDT/PST	AK OTHER
Unpacking Checks:         Cooler #(s):         Temperatures:         Digi #1 Digi #2 IR Gun         Digi #1 Digi #2 IR Gun <t< th=""><th>no, document on NOD.</th></t<>	no, document on NOD.
<ul> <li>4. Bottles received intact? If no, document on NC</li> <li>5. Sample is not multiphasic? If no, document on</li> <li>6. Proper Container and preservatives used? If no</li> <li>7. pH of all samples checked and meet requirement</li> <li>8. Cyanide samples checked for sulfides and meet</li> <li>9. HF Dilution required?</li> <li>10. Sufficient volume provided for all analysis? If PM before proceeding.</li> <li>11. Did chain of custody agree with samples receivable</li> </ul>	DD. NOD. o, document on NOD. nts? If no, document on NOD. t requirements? If no, notify PM. if no, document on NOD and consult ived? If no, document on NOD.
□       12. Is the "Sampled by" section of the COC compl         □       13. Were VOA/Oil Syringe samples without head         □       14. Were VOA vials preserved? □HCl □Sodiur         □       15. Did samples require preservation with sodium         □       16. If yes to #15, was the residual chlorine test ne         □       17. Are dissolved/field filtered metals bottles sedi         □       18. Is sufficient volume provided for client requese no, document on NOD and contact PM before pro         □       19. Are analyses with short holding times receive         □       20. Was Standard Turn Around (TAT) requested         □       21. Receipt date(s) < 48 hours past the collection of	Ispace? m Thiosulfate Ascorbic Acid thiosulfate? egative? If no, document on NOD. iment-free? If no, document on NOD. sted MS/MSD or matrix duplicates? If occeeding. ed in hold?

F:\Sample\_Receiving\_Documents\Forms (effective 3/16/09)

### TestAmerica Portland Sample Receiving Checklist

G10268 Work Order #:

### Login Checks:

Initials

Initials:

	N/A	Yes	No
		Z	22. Sufficient volume provided for all analysis? If no, document on NOD & contact PM.
	Ø		23. Sufficient volume provided for client requested MS/MSD or matrix duplicates? If
			no, document on NOD and contact PM.
		$\mathbf{A}$	24. Did the chain of custody include "received by" and "relinquished by" signatures,
		',	dates and times?
		Þ,	25. Were special log in instructions read and followed?
•	1993) - 40 B	Z	26. Were tests logged checked against the COC?
	Ø.		27. Were rush notices printed and delivered?
		$\mathbf{Z}$	28. Were short hold notices printed and delivered?
	Ø.		29. Were subcontract COCs printed?
	$\mathbf{Z}$		30. Was HF dilution logged?

### Labeling and Storage Checks:

 $\square$ 

N/A	Yes	No
$\square$		31. Were the subcontracted samples/containers put in Sx fridge?
		32. Were sample bottles and COC double checked for dissolved/filtered metals?
	$\square$	33. Did the sample ID, Date, and Time from label match what was logged?
$\square$		34. Were Foreign sample stickers affixed to each container and containers stored in
		foreign fridge?
Z,		35. Were HF stickers affixed to each container, and containers stored in Sx fridge?

36. Was an NOD for created for noted discrepancies and placed in folder?

Document any problems or discrepancies and the actions taken to resolve them on a Notice of Discrepancy form (NOD).



**Sampling Documentation Form** 

Client: Republic Services – Metro South Sam	npler: Jeremy Morgan	
Site: Oregon City / Point Of Compliance Date	9: <u>7-8-10 / 7-9-10</u>	
Project: Industrial Wastewater Discharge Permit Tim	e: 0945 / 1250	

### Sample Matrix: Water

Sampling Method: Grab & Composite

Composite Sampling Equipment: 承ISCO #: <u>8</u> Comp Samples/Day: <u>48 / 1</u> Start Time: <u>095</u>のStop Time: <u>095</u>の Sampler Calibration: <u>86м (</u> Comp Time: <u>1255</u>

Grab Sampling Equipment: ISCO: <u><u>y</u>, <u>y</u> Other: <u></u>Grab Time: <u>1300</u></u>

Field Data:

PH Meter: Thermo Scientific Orion 3 Star PH: 5,87 Time Taken: 1309PH Calibration-7.00 buffer reading: 6,98Slope: 1007PH Buffer 4: 9(10069PH Buffer 7: 9(10069PH Buffer 10: 9(10063)

 Field Conditions:

 Weather:
 Sunny
 Partly cloudy
 Cloudy
 Snowing

 Rainfall:
 Heavy
 Continuous
 Intermittent
 Light

Common Change to de la common			
Sample Characteristics:			
Color: $4e9$ Odor: $4e1$	TSS:		
Sediment: Foam:			

#### **Observations and Comments:**



PORTLAND, OR

9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210 ORELAP#: OR100021

October 29, 2010

Kelly Herrod Republic Services-South Metro 2001 Washington St Oregon City, OR 97045

**RE: Industrial Wastewater Discharge Permit** 

Enclosed are the results of analyses for samples received by the laboratory on 10/15/10 15:10. The following list is a summary of the Work Orders contained in this report, generated on 10/29/10 16:35.

If you have any questions concerning this report, please feel free to contact me.

Work Order PTJ0509 Project Industrial Wastewater Dischar: <u>ProjectNumber</u> Q4 Sewer Discharge Sampling

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PORTLAND, OR

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Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling PO#	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	10/29/10 16:35

a da anti-anti-anti-anti-anti-anti-anti-anti-	ANALYTICAL REP	PORT FOR SAM	PLES	
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Point of Compliance-Grab	PTJ0509-01	Water	10/15/10 12:40	10/15/10 15:10
Point of Compliance-Comp	PTJ0509-02	Water	10/15/10 12:35	10/15/10 15:10

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#### **Republic Services-South Metro**

2001 Washington St Oregon City, OR 97045 Project Name: Project Number: Project Manager:

 Industrial Wastewater Discharge Permit

 r:
 Q4 Sewer Discharge Sampling PO#

 er:
 Kelly Herrod

Report Created: 10/29/10 16:35

Oil and Grease Analysis per EPA Method 1664 TestAmerica Portland											
Analyte		Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTJ0509-01	(Point of Co	mpliance-Grab)	Water			Sampled: 10/15/10 12:40					
Oil & Grease		EPA 1664A	ND		4.76	mg/l	lx	10J0915	10/28/10 10:45	10/28/10 14:59	ID6
Oil & Grease (n	on-polar)		ND		5.00		н	н .	н	10/28/10 15:05	
Oil & Grease (p	olar)	[CALC]	ND		5.00			[CALC]	н.		

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9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South MetroProject Name:Industrial Wastewater Discharge Permit2001 Washington StProject Number:Q4 Sewer Discharge Sampling PO#Report Created:Oregon City, OR 97045Project Manager:Kelly Herrod10/29/10 16:35

		Tot	al Meta		PA 200 erica Port		Methods			
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
РТЈ0509-02	(Point of Compliance-Comp)		Water				pled: 10/15/	10 12:35		
Copper	EPA 200.8	0.113		0.0100	mg/l	5x	10J0599	10/19/10 09:46	10/19/10 18:10	
Lead	,	0.133		0.00500	"		"			
Zinc	"	0.959		0.0500			"	•		

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THE LEADER IN ENVIRONMENTAL TESTING

<b>Republic Services-South Metro</b>	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling PO#	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	10/29/10 16:35

	Total Mercury per EPA Method 245.1 TestAmerica Portland									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	 Notes
PTJ0509-02	(Point of Compliance-Comp)		W	ater		Sam	pled: 10/15/	10 12:35		
Mercury	EPA 245.1	0.000426		0.000400	mg/l	1x	10J0587	10/18/10 16:30	10/19/10 11:36	

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9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South MetroProject Name:2001 Washington StProject Number:Oregon City, OR 97045Project Manager:

me: Industrial Wastewater Discharge Permit mber: Q4 Sewer Discharge Sampling PO# mager: Kelly Herrod

Report Created: 10/29/10 16:35

	Con	ventiona	l Chem	-	<b>trameter</b> nerica Portl	-	Standard	Methods		
Analyte	Method	Result	MDL*	MRL	Units	Dil	Batch	Prepared	Analyzed	Notes
PTJ0509-01 (Point of Co	mpliance-Grab)		Wa	ater		Sam	pled: 10/15/	10 12:40		
рН	SM 4500-H B	7.09			pH Units	lx	10J0613	10/15/10 12:45	10/15/10 12:50	
PTJ0509-02 (Point of Co	mpliance-Comp)		Wa	ater		Sam	pled: 10/15/	10 12:35		
Biochemical Oxygen Demand	SM 5210B	982		2.00	mg/l	lx	10J0529	10/15/10 15:45	10/20/10 11:27	
Total Suspended Solids	SM 2540D	460		50,0	"		10J0754	10/22/10 12:08	10/22/10 17:58	

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Q4 Sewer Discharge Sampling PO#	Report Created:
Kelly Herrod	10/29/10 16:35
~	0 1 0

	Oil and Gre	ase Analysi		지수의 감독 가지?	1664 - L a Portland	abora	tory Qua	ality Co	ntro	l Results				
QC Batch: 10J0915	Water P	reparation M	lethod: O	&G prep	CE									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits	) Analyzed	Notes
Blank (10J0915-BLK1)								Extra	cted:	10/28/10 10	):00			
Oil & Grease	EPA 1664A	ND		5.00	mg/l	1x							10/28/10 14:59	
Blank (10J0915-BLK2)								Extra	icted:	10/28/10 10	:00			
Oil & Grease (non-polar)	EPA 1664A	ND		5.00	mg/l	lx							10/28/10 15:05	
LCS (10J0915-BS1)								Extra	icted:	10/28/10 10	):00			
Oil & Grease	EPA 1664A	36.9			mg/l	lx		40.0	92.2%	(78-114)			10/28/10 14:59	
LCS (10J0915-BS2)								Extra	icted:	10/28/10 10	);00			
Oil & Grease (non-polar)	EPA 1664A	15.5			mg/l	1x		20.0	77.5%	(64-132)		`	10/28/10 15:05	
Matrix Spike (10J0915-MS1)				QC Source:	PTJ0382-01			Extra	icted:	10/28/10 10	):00			
Oil & Grease	EPA 1664A	49.0			mg/l	lx	27.8	40.0	53.1%	(78-114)			10/28/10 14:59	M
Matrix Spike (10J0915-MS2)		-		QC Source:	PTJ0382-01			Extra	acted:	10/28/10 10	):00			
Oil & Grease (non-polar)	EPA 1664A	13.4		-	mg/l	lx	9.62	20.0	19.0%	(64-132)			10/28/10 15:05	M
Matrix Spike Dup (10J0915-MS	5 <b>D</b> 1)			QC Source:	PTJ0382-01			Extra	icted:	10/28/10 10	):00			
Oil & Grease	EPA 1664A	136			mg/l	1x	27,8	40.0	270%	(78-114)	93.9%	6 (18)	10/28/10 14:59	M
Matrix Spike Dup (10J0915-MS	5 <b>D2</b> )			QC Source:	PTJ0382-01			Extra	acted:	10/28/10 10	):00			
Oil & Grease (non-polar)	EPA 1664A	45.6			mg/l	lx	9.62	20.0	180%	(64-132)	109%	6 (34)	10/28/10 15:05	M

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PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South MetroProject Name:Industrial Wastewater Discharge Permit2001 Washington StProject Number:Q4 Sewer Discharge Sampling PO#Report Created:Oregon City, OR 97045Project Manager:Kelly Herrod10/29/10 16:35

	Total Me	tals per EP		es Metho estAmerica			ry Qualit	ty Cont	rol R	esults				
QC Batch: 10J0599	Water P	reparation M	lethod: E	PA 200/30	05									
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits	) Analyzed	Notes
Blank (10J0599-BLK1)								Ext	acted:	10/19/10 09	9:46			
Copper	EPA 200.8	ND		0.00200	mg/l	lx							10/19/10 16:51	
Lead	"	ND		0.00100		"							*	
Zinc	"	ND		0.0100	"	н								
LCS_(10J0599-BS1)								Ext	acted:	10/19/10 09	9:46			
Соррег	EPA 200.8	0.0958		0.00200	mg/l	lx		0.100	95.8%	(85-115)			10/19/10 16:57	
Lead	"	0.0955		0.00100		и		н	95.5%				"	
Zinc	n	0.0900		0.0100		"		н	90.0%				и	
Duplicate (10J0599-DUP1)				QC Source:	PTJ0453-1	1		Ext	acted:	10/19/10 09	9:46			
Copper	EPA 200.8	0.0402		0.00200	mg/l	1x	0.0404				0.347%	á (20)	10/19/10 17:06	
Lead	"	ND		0.00100		Ħ	ND				1.53%	•		
Zinc	u	ND		0.0100	"	n	ND				NR		**	
Matrix Spike (10J0599-MS1)				QC Source:	PTJ0459-0	6		Ext	acted:	10/19/10 09	9:46			
Copper	EPA 200.8	0.105		0.00200	mg/l	lx	0.0140	0.100	90.6%	(75-125)			10/19/10 17:18	
Lead		0.0899		0.00100	"	Ħ	0.000300	۳	89.6%					
Zinc	n	0.172		0.0100	n	"	0.0847	*	87.1%	(70-130)			м	
Matrix Spike (10J0599-MS2)				QC Source:	PTJ0505-0	1		Ext	acted:	10/19/10 09	9:46			
Copper	EPA 200.8	0.0918		0.00200	mg/l	1x	0.00121	0.100	90.6%	(75-125)			10/19/10 18:06	
Lead	н	0.0928		0.00100	н	"	ND		92.8%					
Zinc	н	0.0919		0.0100	н		ND		91.9%	(70-130)			"	

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THE LEADER IN ENVIRONMENTAL TESTING

Number: Q4 Sewer Discharge Sampling PO# Report Created:
Manager: Kelly Herrod 10/29/10 16:35

	Total N	Aercury per		thod 245.1 TestAmerica		atory	Quality	Contro	l Res	ults				ng da
QC Batch: 10J0587	Water P	reparation M	lethod: E	PA 245.1				····						
Analyte	Method	Result	MDL*	MRL	Units	Dil	Source Result	Spike Amt	% REC	(Limits)	% RPD	(Limits)	Analyzed	Notes
Blank (10J0587-BLK1)		······						Extra	icted:	10/18/10 16	:30			
Mercury	EPA 245.1	ND		0,000200	mg/l	lx							10/19/10 10:52	
LCS (10J0587-BS1)								Extra	acted:	10/18/10 16	:30		_	
Mercury	EPA 245.1	0.00551		0.000200	mg/l	lx		0.00500	110%	(85-115)			10/19/10 10:55	
LCS Dup (10J0587-BSD1)								Extra	acted:	10/18/10 16	:30			
Mercury	EPA 245.1	0.00568		0.000200	mg/l	1x		0.00500	114%	(85-115)	3.09%	<b>(20)</b>	10/19/10 10:59	
Duplicate (10J0587-DUP1)				QC Source:	PTJ0134-02			Extra	acted:	10/18/10 16	:30			
Mercury	EPA 245.1	ND		0.000200	mg/l	1x	ND				NR	(20)	10/19/10 11:02	
Matrix Spike (10J0587-MS1)				QC Source:	PTJ0517-01			Extra	acted:	10/18/10 16	:30			
Mercury	EPA 245.1	0.00536		0,000200	mg/l	1x	ND	0.00500	107%	(75-125)			10/19/10 11:05	
Matrix Spike Dup (10J0587-MS	5 <b>D</b> 1)			QC Source:	PTJ0517-01			Extra	acted:	10/18/10 16	:30			
Mercury	EPA 245.1	0.00544		0.000200	mg/l	lx	ND	0.00500	109%	(75-125)	1.51%	5 (20)	10/19/10 11:08	

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BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

Republic Services-South Metro	Project Name:	Industrial Wastewater Discharge Permit	
2001 Washington St	Project Number:	Q4 Sewer Discharge Sampling PO#	Report Created:
Oregon City, OR 97045	Project Manager:	Kelly Herrod	10/29/10 16:35

Conventional Chemistry Parameters per Standard Methods - Laboratory Quality Control Results TestAmerica Portland QC Batch: 10J0529 Water Preparation Method: General Spike % (Limits) % (Limits) Analyzed Amt REC RPD Source Analyte Method Result MDL\* MRL Units Dil Notes Result Blank (10J0529-BLK1) Extracted: 10/15/10 15:45 Biochemical Oxygen Demand SM 5210B ND ----2.00 mg/l 1x 10/20/10 11:27 LCS (10J0529-BS1) Extracted: 10/15/10 15:45 Biochemical Oxygen Demand SM 5210B 10/20/10 11:27 223 ---2.00 mg/l lx 198 113% (85-115) --Duplicate (10J0529-DUP1) QC Source: PTJ0512-01 Extracted: 10/15/10 15:45 Biochemical Oxygen Demand SM 5210B 10/20/10 11:27 5.56 3.66% (35) 5.36 ---2.00 mg/l lx QC Batch: 10J0754 Water Preparation Method: General Source Result Spike % (Limits) % (Limits) Analyzed Amt REC (Limits) RPD Analyte Method Result MDL\* MRL Units Dil Notes Blank (10J0754-BLK1) Extracted: 10/22/10 12:08 Total Suspended Solids SM 2540D ND 10/22/10 17:58 ---10,0 mg/l lx ------------

LCS (10J0754-BS1) Extracted: 10/22/10 12:08 Total Suspended Solids SM 2540D 59.0 ---10.0 mg/l lx ---60.0 98.3% (80-120) ------10/22/10 17:58 Duplicate (10J0754-DUP1) Extracted: 10/22/10 12:08 OC Source: PTJ0570-01

Total Suspended Solids SM 2540D ND 10.0 mg/l lx ND NR (20) 10/22/10 17:58 ----

TestAmerica Portland

Becan L Come

Brian Cone, Industrial Services Manager

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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report shall not be reproduced except

in full, without the written approval of the laboratory.



THE LEADER IN ENVIRONMENTAL TESTING

PORTLAND, OR 9405 S.W. NIMBUS AVENUE BEAVERTON, OR 97008-7132 ph: (503) 906.9200 fax: (503) 906.9210

**Republic Services-South Metro Industrial Wastewater Discharge Permit** Project Name: 2001 Washington St Report Created: Project Number: Q4 Sewer Discharge Sampling PO# Oregon City, OR 97045 10/29/10 16:35 Project Manager: Kelly Herrod **Notes and Definitions** Report Specific Notes: ID6 This analyte was reported as ND based on the "total" result of ND. No additional analysis was performed. M7 The MS and/or MSD were above the acceptance limits. See Blank Spike (LCS). M8 The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS). Laboratory Reporting Conventions: DET Analyte DETECTED at or above the Reporting Limit. Qualitative Analyses only. Analyte NOT DETECTED at or above the reporting limit (MDL or MRL, as appropriate). ND NR/NA Not Reported / Not Available dry Sample results reported on a Dry Weight Basis. Results and Reporting Limits have been corrected for Percent Dry Weight. Sample results and reporting limits reported on a Wet Weight Basis (as received). Results with neither 'wet' nor 'dry' are reported wet on a Wet Weight Basis. RELATIVE PERCENT DIFFERENCE (RPDs calculated using Results, not Percent Recoveries). RPD -MRL METHOD REPORTING LIMIT. Reporting Level at, or above, the lowest level standard of the Calibration Table. MDL\* -METHOD DETECTION LIMIT. Reporting Level at, or above, the statistically derived limit based on 40CFR, Part 136, Appendix B. \*MDLs are listed on the report only if the data has been evaluated below the MRL. Results between the MDL and MRL are reported as Estimated Results Dil Dilutions are calculated based on deviations from the standard dilution performed for an analysis, and may not represent the dilution found on the analytical raw data. Reporting -Reporting limits (MDLs and MRLs) are adjusted based on variations in sample preparation amounts, analytical dilutions and Limits percent solids, where applicable.

Electronic - Electronic Signature added in accordance with TestAmerica's *Electronic Reporting and Electronic Signatures Policy*. Application of electronic signature indicates that the report has been reviewed and approved for release by the laboratory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Portland

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Brian Cone, Industrial Services Manager

#### **CERTIFICATION SUMMARY**

#### **TestAmerica** Portland

Method	Matrix	Oregon	
[CALC]	Water		
EPA 1664A	Water	Х	
EPA 200.8	Water	Х	
EPA 245.1	Water	Х	
None	Water		
SM 2540D	Water	Х	
SM 4500-H B	Water	Х	
SM 5210B	Water	х	

TestAmerica Portland

Becon L Come

Brian Cone, Industrial Services Manager

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THE LEADER IN ENVIRONMENTAL TESTING		<u> </u>			41.								•						F							REO				10	
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City/State/Zip	Oregon (	City, OR	9704	5							•••						R	еро	rt To	o: <u>*</u>	Kell	<u>y</u> ⊦	leri	rod							
Project Manager	Kelly He	rod			<u> </u>			_								_	In	voic	e To	<b>):</b>											
Telephone Number	503-722-4	4656				- Fa	хN	o.:						-			ΤA	Que	ote	#:											
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Sample ID / Description	Date Sampled	Time Sampled	No. of Containers	Grab	Composite		1L Glass w/Hydrochloric Acid	250mL Poly w/Nitric Acid	1L Poly Unpreserved	250mL Poly Unpreserved				Wastewater					1	J	Cu, Pp, Zn, Hg	BOD	TSS	Sampling-Comp							-
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Time

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Date

10-15-10

IN LAB

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LENDER	IN ENVIRONMENTAL TESTING
	Portland Sample Control Checklist
	Order # 150509 Date/Time Received: 11/15/10 1510 Name: Republic Services - Mitto Sonta
	et Name: Thoustral Wastewater Discharge Pern
Time Zo	
Ū C	cking Checks:       Temperature out of Range:         cooler (s):       /         rature (s):       /
-	Digi #1       Digi #2       IR Gun
Ice used	d: (circle one) GEL LOOSE BLUE OTHER: Initials: MY
N/A Y	Yes No
X C	1. If ESI client, were temp blanks received? If no, document on NOD.
<u>ک</u> د	2. Cooler Seals intact? (N/A if hand delivered) if no, document on NOD.
	<ul> <li>Chain of Custody present? Along with "received by" &amp; "relinquished by" signatures with date &amp; time? If no, document on NOD.</li> <li>Bottles received intact? If no, document on NOD.</li> </ul>
•	5. Sample is not multiphasic? If no, document on NOD.
Ž	X ☐ 6. Sampler name/signature documented on COC?
Ì	7. Proper Container and preservatives used? If no, document on NOD.
<u>ا</u> ک	$\checkmark$ 8. pH of all samples checked and meet requirements? If no, document on NOD.
M C	9. Cyanide samples checked for sulfides and meet requirements? If no, notify PM.
) X	10. HF Dilution required?
_	<ul> <li>I1. Sufficient volume provided for all analysis and requested MS/MSD? If no, document on NOD and consult PM before proceeding.</li> <li>I2. Did chain of custody agree with samples received? If no, document on NOD.</li> </ul>
\~~ '-	<ul> <li>If the second of /li></ul>
ا سخہ آ	14. Did samples require preservation with sodium thiosulfate?
	□ □ 15. If yes to #14, was the residual chlorine test negative? If no, document on NOD.
101	
÷ اللا	16. Are dissolved/field filtered metals bottles sediment-free? If no, document on NOD.

9405 SW Nimbus Ave, Beaverton OR 97008 tel 503.906.9200 fax 503.906.9210 www.testamericainc.com



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PT 50509

**Sampling Documentation Form** 

		– Metro South Of Compliance		r: Jeremy Mor	
Project: Ind	ustrial Wastev	vater Discharge Permit	Time:	1620 /	1230
Sample Ma	trix: Water				
Sampling M	Method: Grab	& Composite			
⊐ ISCO #: _ Sampler Ca	libration: t	amples/Day: 48 / 1 S			
<b>Grab Samp</b> Grab Time:	bling Equipmo しょう	ent: ISCO: <u>1-5</u>	Other:	······································	
PH: <u>7 0</u>					
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PH Calibrat Slope: PH Buffer 4 PH Buffer 7 PH Buffer 1 Field Cond Weather: Rainfall: Sample Ch	ion-7.00 buffe 2. 7 ∴ 2 2 0: 9. (006) 0: 0: 9. (006) 0: 9. (006	r reading: <u>7, 6 4</u> 2 3 □ Partly cloudy □ □ Continuous □	1 Intermitt	□ Snowing ent□ Light	<b>W</b> None
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PH Calibrat Slope: PH Buffer 4 PH Buffer 7 PH Buffer 1 Field Cond Weather: Rainfall: Sample Ch Color: Sediment:	ion-7.00 buffe 2. 7 :2(006) 0:2(006) 0:2(006) litions: ∑Sunny □ Heavy heavy heavy Odor	r reading: <u>7, 6 4</u> 2 3 □ Partly cloudy □ □ Continuous □ 5 5 Foam:	1 Intermitt	□ Snowing ent □ Light	<b>i</b> n None
PH Calibrat Slope: PH Buffer 4 PH Buffer 7 PH Buffer 1 Field Cond Weather: Rainfall: Sample Ch Color: Sediment:	ion-7.00 buffe 2. 7 :2(006) 0:2(006) 0:2(006) litions: ∑Sunny □ Heavy heavy heavy Odor	r reading: <u>7, 6 4</u> 2 3 □ Partly cloudy □ □ Continuous □ 5 5 Foam:	1 Intermitt	□ Snowing ent□ Light	None



February 17, 2011

Metro 600 N.E. Grand Avenue Portland, OR 97232

RE: MCS and MSS Annual Sustainability Report Summary

Metro,

This summary report contains information and data on sustainability practices by Allied Waste, including Energy Consumption, Diesel Particulate Pollution Reduction, Idling Reduction, Biodiesel, Natural Resource Conservation, Toxics Reduction, Best Practices for Customer and Employee health and Safety.

### Energy

Prior to the beginning of the contract, Allied Waste contracted with Christenson Electric to conduct a facility energy audit and inspection. As a result of this audit, we further contracted to conduct electrical distribution system testing and the cleaning, torque, of all electrical switchgears, motor controls, dry transformers, distribution panels, and automatic transfer switches at the site. This work was to identify and correct energy leaks in the current system.



Figure 1 Energy efficient lighting and mister Bay 3

Also as a result of the audit, Allied Waste chose to upgrade the facility's primary lighting fixtures from high use halide and high pressure sodium fixtures to more energy efficient equipment florescent fixtures with motion sensors. The facility estimated annual energy

2001 Washington Street Oregon City, OR 97045 503.722.4656 saving of 168,573 kWh. The project is said to offset 64 tons of CO2 generated by fossil fuels.

In 2009 the facility used 1,400, 227 kWh. In 2010, the facility used 1,271,859 kWh. This reflects a reduction in energy use by 128,368 kWh. This only reflects a partial year since implementation of our energy reduction plan.

Allied Waste purchases 100% Clean Wind Green Tags "Gold Level" for all power purchased. See Appendix A.

#### **Diesel Particulate Pollution Reduction**

Allied Waste is currently in the process of retrofitting any existing diesel powered rolling stock which is not already tier 4 compliant and has been identified as requiring either a diesel oxidation catalyst (DOC) and/or diesel particulate filter (DPF) based on its engine horsepower rating.

Allied Waste currently purchases B20 Biodiesel above and beyond the general conditions of the contract.

Allied Waste has in place an Idling Reduction Policy. All employees receive annual training on the policy. Supervisors are required to enforce the policy. See Appendix B.

#### **Natural Resource Conservation**

We currently have in place in all offices and break areas, an in house recycling program to include, paper, cardboard & containers.

To minimize treated water usage, completion of a rainwater harvesting system was finalized at the truck wash in January 2011. Internally, low-flow toilets are currently in use. See Appendix C.



Figure 2 5000 gallon rain water storage tank behind the truck wash

magnets have been installed on the back of all loaders. See Appendix D.

### **METRO SOUTH TRANSFER STATION ANNUAL REPORT - 2010**

### Utility Expenses

#### Metro South Transfer Station Year Ending 12/31/10

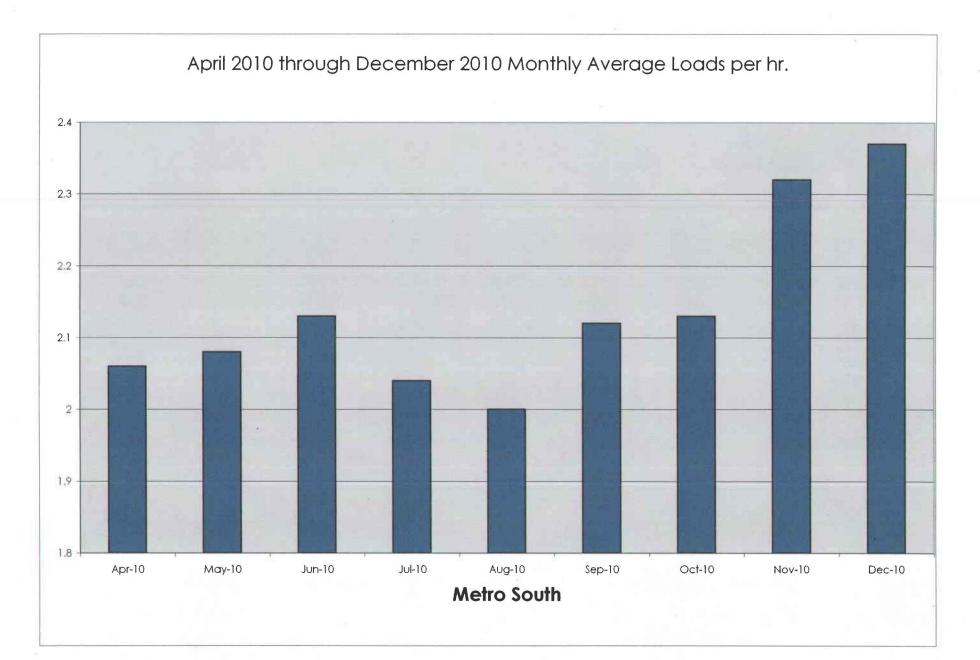
Month	Electric	Water / Sewer	Total	Inbound Tonnage	Cost Per Ton
January	\$11,899.49	\$2,448.84	\$14,348.33	17,606.21	\$0.81
February	\$11,417.11	\$2,886.90	\$14,304.01	17,070.25	\$0.84
March	\$10,441.26	\$2,488.78	\$12,930.04	19,826.82	\$0.65
April	\$9,461.35	\$3,082.74	\$12,544.09	20,131.14	\$0.62
May	\$9,500.06	\$2,855.80	\$12,355.86	19,889.19	\$0.62
June	\$9,157.80	\$3,459.19	\$12,616.99	21,666.12	\$0.58
July	\$8,598.21	\$3,993.31	\$12,591.52	21,548.56	\$0.58
August	\$9,281.94	\$2,634.54	\$11,916.48	21,294.34	\$0.56
September	\$9,039.00	\$2,820.94	\$11,859.94	20,892.28	\$0.57
October	\$8,667.82	\$3,059.06	\$11,726.88	19,786.18	\$0.59
November	\$9,057.98	\$2,043.06	\$11,101.04	19,139.92	\$0.58
December	\$10,853.55	\$1,997.74	\$12,851.29	21,121.09	\$0.61
Total	\$117,375.57	\$33,770.90	\$151,146.47	239,972.10	\$0.64
Month	KiloWatt Hours	kWatt hrs/Day	Gallons	Gallons/Day	ň
January	135,688	4,377.03	240,108	7,745.42	
February	134,125	4,790.18	288,728	10,311.71	
March	120,193	3,877.19	227,392	7,335.23	
April	106,351	3,545.03	320,144	10,671.47	
May	108,199	3,490.29	294,712	9,506.84	
June	103,108	3,436.93	383,724	12,790.80	
July	95,976	3,096.00	465,256	15,008.26	
August	96,524	3,113.68	252,824	8,155.61	
September	88,027	2,934.23	178,772	5,959.07	
October	82,819	2,671.58	310,420	10,013.55	
November	87,943	2,931.43	150,348	5,011.60	
December	112,906	3,642.13	141,372	4,560.39	
Total	1,271,859	3,492.14	3,253,800	8,922.49	

## <u>Appendix G</u>

Section 1 – Recovery Operations Section 2 – Loading Operations

Section 3 - Customer Service

Section 4 - Safety





### CUSTOMER SERVICE SURVEY

### ALLIED WASTE SERVICES – METRO SOUTH STATION T/S

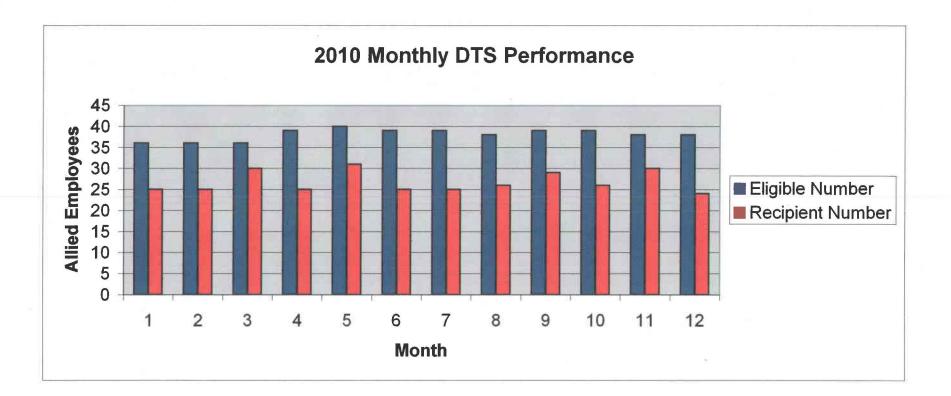
08 - 31 DECEMBER 2010

- 1. Survey Card Template
- 2. Commercial Automated Results
- 3. Commercial Non Automated Results
- 4. Public Self Haul Results
- 5. Customer Comments

Task: Complete a Customer Service Survey incorporating Commercial Automated, Commercial Non-Automated and Public Self-haul customers.

Conditions: Beginning 21 December 2010 and ending on 03 January 2011 approximately 500 survey cards were distributed with a return of 419 collected. Cards were distributed during all hours of operation encompassing every day of the week with a concentration during peak hours for each of the groups.

Standards: Survey a minimum of 30% of customer traffic during peak hours of operation for each of the groups. Peak hours were determined to be 0800-1200 for Commercial Automated and 1000-1400 for Commercial Non-Automated and Public Self-haul.



## <u>Appendix H</u>

Q1 MCS Summary Information

# Central Station MSW Densified and Transported to Arlington

# 2010

Month	# Loads	<b>Tons Densified</b>	Average Tons per Load	Base Tonnage	Bonus Tonnage
January	586	19,770.68	33.74	16,994.00	2,776.68
February	529	17,940.58	33.91	15,341.00	2,599.58
March	606	20,542.81	33.90	17,574.00	2,968.81
April	0	0.00	#DIV/0!	0.00	0.00
May	0	0.00	#DIV/0!	0.00	0.00
June	0	0.00	#DIV/0!	0.00	0.00
July	0	0.00	#DIV/0!	0.00	0.00
August	0	0.00	#DIV/0!	0.00	0.00
September	0	0.00	#DIV/0!	0.00	0.00
October	0	0.00	#DIV/0!	0.00	0.00
November	0	0.00	#DIV/0!	0.00	0.00
December	0	0.00	#DIV/0!	0.00	0.00
Total	1721	58,254.07	33.85	49,909.00	8,345.07

Note:

\*Base tonnage is @ 29 tons per load: Jan - Mar 2010.

# South Station MSW Densified and Transported to Arlington

## 2010

Month	# Loads	<b>Tons Densified</b>	Average Tons per Load	Base Tonnage	Bonus Tonnage
January*	456	15,350.38	33.66	13,224.00	2,126.38
February*	443	15,097.75	34.08	12,847.00	2,250.75
March*	535	18,305.53	34.22	15,515.00	2,790.53
April**	513	17,567.82	34.25	17,185.50	382.32
May**	513	17,580.68	34.27	17,185.50	395.18
June**	540	18,443.53	34.15	18,090.00	353.53
July**	587	20,078.47	34.21	19,664.50	413.97
August**	586	20,078.45	34.26	19,631.00	447.45
September**	571	19,557.23	34.25	19,128.50	428.73
October**	519	17,703.21	34.11	17,386.50	316.71
November**	485	16,571.36	34.17	16,247.50	323.86
December**	561	19142.27	34.12	18,793.50	348.77
Total	6309	215476.68	34.15	204898.50	10578.18

Note: \*Base tonnage is @ 29 tons per load: Jan - Mar 2010. \*\*Base tonnage is @ 33.5 tons per load: Apr - Dec 2010.

### METRO CENTRAL TRANSFER STATION ANNUAL REPORT - 2010

### Utility Expenses

### Metro Central Transfer Station Year Ending 12/31/10

Month	Electric	Water / Sewer	Natural Gas	Total	Inbound Tonnage	Cost Per Ton
January	15,524.31	4,481.92	377.80	20,384.03	21,773.66	\$0.94
February	16,523.88	4,634.98	317.17	21,476.03	20,523.98	\$1.05
March	9,646.85	3,477.08	254.56	13,378.49	22,847.06	\$0.59
April	0.00	0.00	0.00	· _		#DIV/0!
May	0.00	0.00	0.00	-		#DIV/0!
June	0.00	0.00	0.00	<u> </u>		#DIV/0!
July	0.00	0.00	0.00	_		#DIV/0!
August	0.00	0.00	0.00	-		#DIV/0!
September	0.00	0.00	0.00	-		#DIV/0!
October	0.00	0.00	0.00	· · · · · ·		#DIV/0!
November	0.00	0.00	0.00	-		#DIV/0!
December	0.00	0.00	0.00	-		#DIV/0!
Total	41,695.04	12,593.98	949.53	55,238.55	65,144.70	#DIV/0!

	ORY MSW - Januar	J 2010	
····	ETRO CENTRAL	L	
VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	142.45	142.45	0.00
CAR W/ 1 AXLE TRAILER	52.88	52.88	0.00
FLAT BED	157.72	157.72	0.00
LOOSE DROP BOX	1314.78	1314.78	0.00
MISC (UTIL/STEP VAN)	609.69	609.69	0.00
PICKUP & 1 AXLE TRAILER	493.83	493.83	0.00
PICKUP W/ 2 AXLE OR GREATER	130.15	130.15	0.00
STANDARD PICKUP	731.19	731.19	0.00
TOTALS	3,632.69	3,632.69	0.00
	METRO SOUTH		
VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	205.40	205.40	0.00
CAR W/ 1 AXLE TRAILER	107.41	107.41	0.00
FLAT BED	284.80	284.80	0.00
LOOSE DROP BOX	1434.84	1434.84	0.00
MISC (UTIL/STEP VAN)	1003.51	1003.51	0.00
PICKUP & 1 AXLE TRAILER	1393.00	1393.00	0.00
PICKUP W/ 2 AXLE OR GREATER	361.25	361.25	0.00
STANDARD PICKUP	1263.68	1263.68	0.00
TOTALS	6,053.89	6,053.89	0.00
	COMBINED		
	TRANSACTION DB	SITES RPTED	DIFF
CAR	347.85	347.85	0.00
CAR W/ 1 AXLE TRAILER	160.29	160.29	0.00
FLAT BED	442.52	442.52	0.00
LOOSE DROP BOX	2,749.62	2,749.62	0.00
MISC (UTIL/STEP VAN)	1,613.20	·····	0.00
PICKUP & 1 AXLE TRAILER	1,886.83		0.00
PICKUP W/ 2 AXLE OR GREATER	491.40	491.40	0.00
STANDARD PICKUP	1,994.87	1,994.87	0.00
TOTALS	9,686.58	9,686.58	0.00

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					·····		Jan-10		LING RE	<u></u>			
DATE	DAY	Oil Filters	Mixed Waste Paper	To Central Millwood	Film Plastics	Rubble	Electronics	Hard Plastics	To-Central Hard Plastics	To-Central Film Plastics	To-Central Compressors	Propane - lbs	Daily Total
1	Fri												0.00
2	Sat												49.79
3	Sun												0.00
4	Mon						6.15						<b>87</b> .40
5	Tue												136.02
6	Wed												100.77
7	Thu												162.13
8	Fri												101.71
9	Sat												38.29
10	Sun										·		0.00
11	Mon												77.95
12	Tue												103.09
13	Wed						6.54						81.94
14	Thu												98.74
15	Fri												83.37
16	Sat												23.90
17	Sun												0.00
18	Mon						3,29						118.25
19	Tue											0.31	165.16
20	Wed						5.77						185.72
21	Thu												134.24
22	Fri												26.19
23	Sat		.58		1.62			1.00					5.53
24	Sun												0.00
25	Mon												83.42
26	Tue												151.78
27	Wed												99.63
28	Thu					7.78	2.85						178.01
29	Fri							1.05					118.61
30	Sat							an constant					27.56
31	Sun				· · · ·								0.00
South Su	btraction				-1.67	· ·	1 1	******					-1.67
TOTAL		.00	.58	.00	05	7.78	24.60	2.05	.00	.00	.00	.31	2,437.53

## METRO CENTRALH RE-USABLE REPORT

Jan-10

· · · · · · · · · · · · · · · · · · ·				· · · · · · · · ·						
DATE	DAY	Carpet	Textiles - Recycling	Community Recycling	Cracked Pots	Propane- 5's	Rebuilding Center	SVDP- Reuse	Plastic Nursery Pots	Daily Total
1	Fri		1							.00
2	Sat									.00
3	Sun									.00
4	Mon									.00
5	Tue				<u></u>					.00
6	Wed									.00
7	Thu						,17			.17
8	Fri									.00
9	Sat									.00
10	Sun									.00
11	Mon									.00
12	Tue					.46				.46
13	Wed									.00
14	Thu						.59			.59
15	Fri									.00
16	Sat									.00
17	Sun									.00
18	Mon									.00
- 19	Tue		· · · ·							.00
20	Wed						.60			.60
21	Thu									.00
22	Fri									.00
23	Sat									.00
24	Sun					•				.00
25	Mon									.00
26	Tue									.00
27	Wed									.00
28	Thu									.00
29	Fri									.00
30	Sat									.00
31	Sun									.00
TOTALS		0.00	0.00	0.00	0.00	0.46	1.36	0.00	0.00	1.82

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METRO CENTRAL MONTHLY INBOUND TONNAGE REPORT

Jan-10 TOTAL INBOUND TRANSACTIONS 9,621 TOTAL INBOUND TO 20,111.45																
	TOTAL	INBOUNI	) TRANSAG	CTIONS					9,621			J	<b>OTAL INE</b>	OUND TO	20,111.45	
		SOU	RCE	COMM	ERCIAL											TOTAL
		SEPER	ATED	CURE	BSIDE	ORGA	NICS		MSW		YARD DEBRIS		RIS	TOTAL	TRANS	REVENUE
DATE	DAY	TRANS	ONS (EST	TRANS	TONS	TRANS	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONNAGE
1	Fri													0	0	0.00
2	Sat	21	1.03			12	66.14	246	125	783.70	15		4.37	261	125	854.21
3	Sun	20	1.02			4	18.03	189	22	153.63	15		2.85	204	22	174.51
4	Mon	18	0.90			13	65.81	144	178	<b>942</b> .91	9	1	2.79	153	179	1,011.51
5	Tue	10	0.88			17	77.68	129	180	947.46	5	1	6.15	134	181	1,031.29
6	Wed	7	0.34			12	62.98	119	179	848.65	8	1	2.83	127	180	914.46
7	Thu	15	1.54			16	67.07	142	180	883.32	8	2	8.30	150	182	958.69
8	Fri	12	0.39			14	58.76	119	167	853.72	8	1	1.72	127	168	914.20
9	Sat	19	1.02			8	37.27	234	46	282.48	25		6.36	259	46	326.11
10	Sun	13	0.76			4	15.31	166	23	128.55	27		5.79	193	23	149.65
11	Mon	15	0.60			14	69.43	177	185	980.88	. 9		3.99	186	185	1,054.30
12	Tue	8	0.26			17	77.03	144	200	964.54	10	2	6.61	154	202	1,048.18
13	Wed	7	0.26			15	73.85	128	171	743.28	8	1	2.54	136	172	819.67
14	Thu	6	0.44			12	40.65	128	185	850.38	13	2	5.38	141	187	896.41
15	Fri	11	0.70			16	68.03	110	186	858.28	10	1	2.92	120	187	929.23
16	Sat	13	0.61			7	30.63	203	39	252.19	13		4.22	216	39	287.04
17	Sun	9	0.93			4	15.68	131	21	124.66	15		5.10	146	21	145.44
18	Mon	14	0.86			14	64.40	179	174	947.31	15		4.46	194	174	1,016.17
19	Tue	7	0.24			19	90.54	130	193	866.33	12	2	8.07	142	195	964.94
20	Wed	14	1.00			11	50.64	130	179	806.99	7	1	2.73	137	180	860.36
21	Thu	15	0.93			16	64.67	142	172	800.24	15	2	6.20	157	174	871.11
22	Fri	9	0.62	_		13	52.46	144	169	841.86	10	2	3.47	154	171	897.79
23	Sat	17	0.88			10	47.38	268	48	286.82	23		5.95	291	48	340.15
24	Sun	6	0.25			3	12.90	128	19	108.21	13		4.82	141	19	125.93
25	Mon	22	0.93			16	90.85	140	187	955.27	4	2	2.55	144	189	1,048.67
26	Tue	14	2.77			24	113.13	153	201	959.49	18	2	8.57	171	203	1,081.19
27	Wed	7	0.42			13	62.72	150	173	731.11	12	1	4.30	162	174	798.13
28	Thu	9	0.55			15	58.96	. 156	181	831.17	13		6.10	169	181	896.23
29	Fri	9	0.30			13	60.01	154	162	809.58	6	2	2.12	160	164	871.71
30	Sat	24	1.43			9	43.29	212	51	279.05	29		8.06	241	51	330.40
31	Sun	11	0.44			4	12.67	206	16	121.66	25		5.11	231	16	139.44
TOTAL		382	23.30	0	0.00	365	1,668.97	4,801	4,012	19,943.72	400	26	144.43	5,201	4,038	21,757.12
VERAGE	Ξ	12.73	0.78	#DIV/0!	#DIV/0!	12.17	55.63	160.03	133.73	664.79	13.33	1.53	4.81	167.77	130.26	701.84

## METRO CENTRAL STATION OUTGOING WASTEFLOWS - JANUARY 2010 (Finalized)

	T01	AL	OV	VS	RIVERBEN	D	AVERAGE	TOTAL	
Date	Loads	Tons	Loads	Tons	Loads	Tons	Load	Overloads	Date
1-Jan	0	0.000							1-Ja
2	0	0.000							
3	0	0.000							· · · · ·
4	31	1,032.090	31	1,032.090			33.29	1	
5	38	1,270.430	38	1,270.430			33.43	0	
6	35	1,151.090	35	1,151.090			32.89	0	
7	40	1,339.850	40	1,339.850			33.50	0	
8	34	1,152.680	34	1,152.680			33.90	0	
9	0	0.000							
10	0	0.000			_				1
11	33	1,122.770	33	1,122.770			34.02	0	1
12	32	1,083.970	32	1,083.970			33.87	1	1:
13	24	810.910	24	810.910			33.79	0	1
14	24	820.830	24	820.830	······································		34.20	0	1
15	27	913.730	27	913.730			33.84	3	1
16	0	0.000							1
17	0	0.000	·						1
18	34	1,153.780	34	1,153.780			33.93	0	1
19	26	882.730	26	882.730			33.95	0	1
20	26	880.110	26	880.110			33.85	0	2
21	24	816.110	24	816.110			34.00	0	2
22	22	744.970	22	744.970			33.86	1	2
23	0	0.000							2
24	0	0.000							2
25	29	976.620	29	976.620			33.68	1	2
26	30	1,018.490	30	1,018.490			33.95	1	2
27	28	936.620	28	936.620			33.45	2	2
28	27	917.540	27	917.540			33.98	0	2
29	22	745.360	22	745.360			33.88	1	2
30	0	0.000						-	3
31	0	0.000						······	3
Totals:	586	19,770.680	586	19,770.680	0	0.000	33.74	11	

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### **INCOMING DRY MSW - February 2010**

METRO CENTRAL										
VEHICLE DESC TRANSACTION DB SITES RPTED DIFF										
138.83	138.83	0.00								
73.45	73.45	0.00								
214.68	214.68	0.00								
1380.53	1380.53	0.00								
557.43	557.43	0.00								
506.99	506.99	0.00								
99.41	99.41	0.00								
741.03	741.03	0.00								
3,712.35	3,712.35	0.00								
	TRANSACTION DB 138.83 73.45 214.68 1380.53 557.43 506.99 99.41 741.03	138.83138.8373.4573.45214.68214.681380.531380.53557.43557.43506.99506.9999.4199.41741.03741.03								

METRO SOUTH

	TRANCACTION DR		DIEE
VEHICLE DESC	TRANSACTION DB	SILES RPIED	DIFF
CAR	201.21	201.21	0.00
CAR W/ 1 AXLE TRAILER	69.56	69.56	0.00
FLAT BED	326.32	326.32	0.00
LOOSE DROP BOX	1429.34	1429.34	0.00
MISC (UTIL/STEP VAN)	1069.65	1069.65	0.00
PICKUP & 1 AXLE TRAILER	1397.67	1397.67	0.00
PICKUP W/ 2 AXLE OR GREATER	339.04	339.04	0.00
STANDARD PICKUP	1238.52	1238.52	0.00
TOTALS	6,071.31	6,071.31	0.00

COMBINED

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	340.04	340.04	0.00
CAR W/ 1 AXLE TRAILER	143.01	143.01	0.00
FLAT BED	541.00	541.00	0.00
LOOSE DROP BOX	2,809.87	2,809.87	0.00
MISC (UTIL/STEP VAN)	1,627.08	1,627.08	0.00
PICKUP & 1 AXLE TRAILER	1,904.66	1,904.66	0.00
PICKUP W/ 2 AXLE OR GREATER	438.45	438.45	0.00
STANDARD PICKUP	1,979.55	1,979.55	0.00
TOTALS	9,783.66	9,783.66	0.00

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## METRO CENTRAL MONTHLY INBOUND TONNAGE REPORT

Feb-10

	TOTAL	INBOUND	TRANSAC	TIONS					9,563			ŋ	TOTAL INE	BOUND TO	18,952.57	
		SOU	RCE	COMM	ERCIAL											TOTAL
		SEPER			BSIDE	ORGA	NICS		MSW		YA	RD DEB	RIS	TOTAL	TRANS	REVENUE
DATE	DAY	TRANS	'ONS (EST	TRANS	TONS	TRANS	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONNAGE
1	Mon	8	0.32			14	69.40	140	188	958.36	13		5.52	153	188	1,033.28
2	Tue	7	0.32			21	103.96	156	171	880.67	18	4	10.14	174	175	994.77
3	Wed	11	0.55			15	63.40	136	171	770.71	8	. 3	5.84	144	174	839.95
4	Thu	9	0.54			15	53.07	172	181	873.73	16	1	5.40	188	182	932.20
5	Fri	6	0.40			12	58.29	162	175	861.84	14		5.24	176	175	925.37
6	Sat	13	0.75			9	43.60	288	44	282.33	35		7.96	323	44	333.89
7	Sun	7	0.20			2	12.65	149	18	119.28	33		12.08	182	18	144.01
8	Mon	10	0.34			14	75.95	152	197	1,011.72	16		4.74	168	197	1,092.41
9	Tue	16	1.32			19	89.78	164	183	878.63	15	1	5.44	179	184	973.85
10	Wed	7	0.47			12	61.43	- 160	183	770.42	9	2	7.04	169	185	838.89
11	Thu	9	0.57			13	58.50	120	177	796.10	9		2.80	129	177	857.40
12	Fri	7	0.24			14	63.17	135	177	846.30	12	1	4.15	147	178	913.62
13	Sat	13	1.17			9	40.94	228	45	288.75	32		12.35	260	45	342.04
14	Sun	7	0.23			4	17.13	129	17	101.74	12		3.55	141	17	122.42
15	Mon	15	0.67			13	62.62	158	170	932.30	15	2	4.27	173	172	999.19
16	Tue	8	0.73			17	95.51	170	183	889.16	21	2	7.71	191	185	992.38
17	Wed	12	0.68			10	43.92	155	165	765.88	27	2	8.51	182	167	818.31
18	Thu	13	1.35			16	67.93	144	180	781.70	18		8.76	162	180	858.39
19	Fri	12	1.07			15	80.40	168	163	816.35	17	1	5.84	185	164	902.59
20	Sat	16	1.03			8	37.85	319	48	301.23	57		11.43	376	48	350.51
21	Sun	12	0.34			2	14.01	236	17	128.88	69		15.93		17	158.82
22	Mon	11	0.66	-		12	52.16	188	188	949.86	22	1	5.71	210	189	1,007.73
23	Tue	10	0.64			19	89.58	135	199	926.79	7	4	2.91	142	203	1,019.28
24	Wed	6	0.43			15	80.96	131	162	695.30	10		3.09	141	162	779.35
25	Thu	11	0.67			17	77.46	143	177	810.17	14		3.53	157	177	891.16
26	Fri	8	0.59			12	56.56	137	169	858.89	8	2	2.35	145	171	917.80
27	Sat	21	1.57			10	51.54	257	48	304.55	42	1	12.35	299	49	368.44
28	Sun	9	0.52			3	12.70	190	19	138.29	36		9.63	226	19	160.62
29														0	0	0.00
30														0	0	0.00
31														0	0	0.00
TOTAL		294	18.37	0	0.00	342	1,634.47	4,822	3,815	18,739.93	605	27	194.27	5,427	3,842	20,568.67
AVERAGE	E	10.50	0.66	#DIV/0!	#DIV/0!	12.21	58.37	172.21	136.25	669.28	21.61	1.93	6.94	175.06	123.94	663.51



Γ	тот	AL	OV	VS	RIVERBEND	)	AVERAGE	TOTAL	
Date	Loads	Tons	Loads	Tons	Loads	Tons	Load	Overloads	Date
1-Feb	33	1,118.760	33	1,118.760			33.90	0	1-Feb
2	29	982.110	29	982.110			33.87	0	2
3	24	816.740	24	816.740		N	34.03	0	3
4	26	881.850	26	881.850			33.92	0	4
5	22	748.950	22	748.950			34.04	0	5
6	0	0.000							5 6 7
7	0	0.000							7
8	35	1,188.630	35	1,188.630			33.96	0	8
9	28	949.450	28	949.450			33.91	0	9
10	25	846.060	25	846.060			33.84	0	10
11	24	817.470	24	817.470			34.06	0	11
12	21	714.810	21	714.810			34.04	. 0	12
13	. 0	0.000							13
14	0	0.000							14
15	34	1,155.140	34	1,155.140			33.97	0	15
16	29	986.050	29	986.050			34.00	0	16
17	23	771.390	23	771.390			33.54	0	17
18	23	777.510	23	777.510			33.80	0	18
19	23	782.790	23	782.790			34.03	. 0	19
20	0	0.000							20
21	0	0.000							21
22	30	1,018.310	30	1,018.310			33.94	0	22
23	29	982.830	29	982.830			33.89	0	23
24	25	844.360	25	844.360			33.77	0	24
25	24	810.300	24	810.300			33.76	0	25
26	23	780.800	23	780.800			33.95	· 0	26
27	0	0.000							27
28	. 0	0.000							28
29	0	0.000							29
30	0	0.000							30
31	0	0.000							31
Totals:	530	17,974.310	530	17,974.310	0	0.000	33.91	0	<u></u>

Note 1: Average is for OWS & Riverbend Compacted Loads only.

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METRO CENTRAL MONTHLY RECYCLING REPORT

Feb-10

	REC	YCLING 7	rons		2,904.91				TOTAL R	ECOVER	ED TON	IS	2,907.08
	R	E-USE TO	NS		2.17								
DATE	DAY	Tires Recycling	Ferrous Metal	Organics	Foam Pad	Yard Debris	Cardboard	Non- Ferrous Metal	Glass	Plastic Jugs	Hog Fuel	Oil and Antifreeze	Batteries
1	Mon		6.47	72.62								18 - 1	
2	Tue		7.55	95.43								1.92	5
3	Wed			98.12		•							
4	Thu		6.30	39.61	.87		Ĩ				30.86		
5	Fri		3.28	76.61									
6	Sat			24.28									
7	Sun												
8	Mon		10.48	70.88							58.89		
9	Tue		7.89	99.74	.31			.38			62.35		1.51
10	Wed			95.09									
11	Thu		6.80	47.86							57.72		
12	Fri		3.21	70.02							27.40		
13	Sat			25.12									
14	Sun				,								
15	Mon		12.91	73.78							31.78		· · · · · · · · · · · · · · · · · · ·
16	Tue		7.19	97.10		<u> </u>					57.09	2.74	· · · · · ·
17	Wed			71.82			26.49				87.03		
18	Thu	·	12.43	49.69	.91						62.90		
19	Fri		6.38	44.15		······································							
20	Sat												
. 21	Sun					<u></u>	ſ						
22	Mon		6.52	55.60				1.41					
23	Tue		2.64	93.23							91.67		
24	Wed			93.41							62.05		
25	Thu		9.30	48.65			22.69		<u>an an an</u> an an a' th		57.82		
26	Fri	9.65	13.16	90.18			6.88	2.35	10.31		28.87		
27	Sat			45.78	.68								_ /
28	Sun												
	btraction												
TOTAL	LS	9.65	122.51	1,578.77	2.77	.00	56.06	4.14	10.31	.00	716.43	4.66	1.51

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METRO CENTRAI MONTHLY RECYCLING REPORT Feb-10

DATE	DAY	Oil Filters	Mixed Waste Paper	To Central Millwood	Film Plastics	Rubble	Electronics	Hard Plastics	To-Central Hard Plastics	To-Central Film Plastics	To-Central Compressors	Propane - lbs	Daily Total
1	Mon				·								79.09
2	Tue						6.68						111.58
3	Wed												98.12
4	Thu												77.64
5	Fri												79.89
6	Sat												24.28
7	Sun												0.00
8	Mon												140.25
9	Tue				4		2						172.18
10	Wed					·	6.24						101.33
11	Thu		.61										112.99
12	Fri												100.63
13	Sat												25.12
14	Sun												0.00
15	Mon												118.47
16	Tue						2.89						167.01
17	Wed					27.86							213.20
18	Thu					75.52							201.45
19	Fri					52.89							103.42
20	Sat												0.00
21	Sun												0.00
22	Mon					50.93							114.46
23	Tue					73.77	2.88						264.19
24	Wed					47.48							202.94
25	Thu		7.49		1.17	20.08	2.87						170.07
26	Fri				.66	15.83		2.25					180.14
27	Sat												46.46
28	Sun												0.00
South Sub	otraction				홍수 것 같								0.00
TOTAL	S	.00	8.10	.00	1.83	364.36	21.56	2.25	.00	.00	.00	.00	2,904.91

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METRO CENTRALH RE-USABLE REPORT

February 2010

DATE	DAY	Carpet	Textiles - Recycling	Community Recycling	Cracked Pots	Propane- 5's	Rebuilding Center	SVDP- Reuse	Plastic Nursery Pots	Daily Total
1	Mon						·····			.00
2	Tue									.00
3	Wed									.00
4	Thu	1				.54				.54
5	Fri	h								.00
6	Sat		-							.00
7	Sun									.00
8	Mon				· .		1	· · · · · · · · · · · · · · · · · · ·		.00
9	Tue							h		.00
10	Wed						.62			.62
11	Thu									.00
12	Fri	1								.00
13	Sat	<b>.</b>								.00
14	Sun			<u></u>						.00
15	Mon		· ·		<b>.</b>			· · · · ·		.00
16	Tue		N							.00
17	Wed							-		.00
18	Thu									.00
19	Fri									.00
20	Sat									.00
21	Sun						· · · · · ·			.00
22	Mon									.00
23	Tue									.00
24	Wed									.00
25	Thu	[			· · · · · · · · · · · · · · · · · · ·	.45	.56			1.01
26	Fri									.00
27	Sat									.00
28	Sun									.00
ΓOTALS		0.00	0.00	0.00	0.00	0.99	1.18	0.00	0.00	2.17

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### **INCOMING DRY MSW - March 2010**

METRO CENTRAL									
TRANSACTION DB	SITES RPTED	DIFF							
134.70	134.70	0.00							
120.37	120.37	0.00							
248.38	248.38	0.00							
1429.10	1429.10	0.00							
628.65	628.65	0.00							
459.76	459.76	0.00							
236.49	236.49	0.00							
850.13	850.13	0.00							
4,107.58	4,107.58	0.00							
	TRANSACTION DB 134.70 120.37 248.38 1429.10 628.65 459.76 236.49 850.13	TRANSACTION DBSITES RPTED134.70134.70120.37120.37248.38248.381429.101429.10628.65628.65459.76459.76236.49236.49850.13850.13							

#### **METRO SOUTH**

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	206.24	206.24	0.00
CAR W/ 1 AXLE TRAILER	215.09	215.09	0.00
FLAT BED	458.94	458.94	0.00
LOOSE DROP BOX	1616.97	1616.97	0.00
MISC (UTIL/STEP VAN)	986.83	986.83	0.00
PICKUP & 1 AXLE TRAILER	1169.27	1169.27	0.00
PICKUP W/ 2 AXLE OR GREATER	785.36	785.36	0.00
STANDARD PICKUP	1470.36	1470.36	0.00
TOTALS	6,909.06	6,909.06	0.00

### COMBINED

VEHICLE DESC	TRANSACTION DB	SITES RPTED	DIFF
CAR	340.94	340.94	0.00
CAR W/ 1 AXLE TRAILER	335.46	335.46	0.00
FLAT BED	707.32	707.32	0.00
LOOSE DROP BOX	3,046.07	3,046.07	0.00
MISC (UTIL/STEP VAN)	1,615.48	1,615.48	0.00
PICKUP & 1 AXLE TRAILER	1,629.03	1,629.03	0.00
PICKUP W/ 2 AXLE OR GREATER	1,021.85	1,021.85	0.00
STANDARD PICKUP	2,320.49	2,320.49	0.00
TOTALS	11,016.64	11,016.64	0.00

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C:\Documents and Settings\lh10020\Local Settings\Temporary Internet Files\OLK228\ Site\_Rpts\_To\_AWTS-03\_2010.xlsx METRO CENTRAL MONTHLY INBOUND TONNAGE REPORT

### Mar-10

	TOTAL INBOUND TRANSACTIONS								10,941 TOTAL INB					OUND TO	21,036.41	
		SOU	RCE	COMM	ERCIAL											TOTAL
		SEPEF	ATED	CURI	BSIDE	ORGA	ANICS		MSW		YARD DEBRIS			TOTAL TRANS		REVENUE
DATE	DAY		ONS (EST		TONS	TRANS	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONS	CASH	CREDIT	TONNAGE
1	Mon	18	0.89			14	74.76	182	187	949.10	28	3	10.32	210	190	1,034.18
2	Tue	12	0.48			16	73.09	169	205	970.27	13	1	5.80	182	206	1,049.16
3	Wed	8	0.55			17	76.01	163	157	752.87	17	. 2	7.55		159	836.43
4	Thu	13	0.76			18	76.76	162	192	881.02	14		2.58	176	192	960.36
5	Fri	9	0.59			12	61.15	143	169	833.44	14		6.67	157	169	901.26
6	Sat	24	7.47			8	40.69	294	49	316.80	68	1	19.49	362	50	376.98
7	Sun	8	0.43			2	11.82	226	14	140.52	- 73		18.44	299	14	170.78
8	Mon	10	0.68			11	50.01	165	177	884.99	25	2	12.14	190	179	947.14
9	Tue	4	0.49			17	79.88	127	203	910.99	9	1	3.99	136	204	994.86
10	Wed	9	0.51			11	51.99	120	161	689.55	8	1	6.64	128	162	
11	Thu	9	0.44			18	73.59	126	176	793.22	11		5.96	137	176	872.77
12	Fri	8	0.34			13	67.35	130	155	809.14	15	1	5.49	145	156	881.98
13	Sat	17	0.57			8	39.98	237	40	261.24	41		10.49	278	40	311.71
14	Sun	10	0.51		к	3	14.55	185	14	122.34	34		9.59	219	14	146.48
15	Mon	13	0.70			14	70.25	188	165	881.50	22		7.13	210	165	958.88
16	Tue	8	0.75			17	77.20	151	161	841.81	10	1	1.71	161	162	920.72
17	Wed	8	0.39			12	60.26	165	157	693.79	12	2	6.37	177	159	760.42
18	Thu	13	0.73			16	69.73	143	160	737.28	27	1	7.03	170	161	814.04
19	Fri	9	0.60			14	70.51	191	164	814.80	23	2	9.92	214	166	895.23
20	Sat	18	1.25			7	32.88	333	48	303.70	52		13.78	385	48	350.36
21	Sun	5	0.23			1	3.47	222	15	138.68	35	0	11.56	257	15	153.71
22	Mon	11	0.77			13	58.57	194	179	919.23	23	1	8.57	217	180	
23	Tue	6	0.27			16	74.51	. 187	180	847.17	13	2	6.86	200	182	928.54
24	Wed	9	0.34			14	67.21	186	154	694.71	28	3	9.23	214	157	771.15
25	Thu	8	0.88			18	79.41	145	175	789.96	11	1	3.89		176	
26	Fri	11	0.44			11	54.08	146	174	839.58	21	0		167	174	898.73
27	Sat	20	1.17			7	28.33	313	47	269.18	57		14.60		47	312.11
28	Sun	11	0.45			3	12.79	223	10	106.21	33		9.11	256	10	
29	Mon	6	0.25			16	87.37	135	175	922.82	6		1.76		175	
30	Tue	14	0.77			18	85.30	110	175	873.01	4		0.98		175	
31	Wed	9	0.57			15	69.91	135	182	771.29	14	1	8.21	149	183	849.41
TOTAI	-	338	25.27	0	0.00	380	1,793.41	5,596	4,220	20,760.21	761	26	250.93	6,357	4,246	22,804.55
AVERAG	E	10.90	0.82	# DIV/0!	# DIV/0!	12.26	57.85	180.52	136.13	669.68	24.55	1.37	8.09	205.06	136.97	735.63

# METRO CENTRAL STATION OUTGOING WASTEFLOWS - MARCH 2010 (Finalized)

	тот	AL	OV	VS	RIVERBEND		AVERAGE	TOTAL	
Date	Loads	Tons	Loads	Tons	Loads	Tons	Load	Overloads	Date
1-Mar	32	1,086.090	32	1,086.090			33.94	0	1-Mar
2	31	1,052.590	31	1,052.590			33.95	0	2
3	25	845.270	25	845.270			33.81	0	3
4	23	774.090	23	774.090			33.66	1	4
5	25	844.140	25	844.140			33.77	0	5
6	0	0.000							6
7	0	0.000				4			7
8	28	951.710	28	951.710			33.99	. 0	8
9	26	879.450	26	879.450			33.83	0	9
10	27	912.910	27	912.910			33.81	0	10
11	25	844.430	25	844.430			33.78	0	11
12	24	817.170	24	817.170			34.05	0	12
13	0	0.000							13
14	0	0.000							14
15	26	886.930	26	886.930			34.11	2	15
16	27	915.600	27	915.600			33.91	0	16
17	26	886.940	26	886.940			34.11	1	17
18	20	681.820	20	681.820			34.09	0	18
19	23	773.400	23	773.400			33.63	1	19
20	0	0.000							20
21	0	0.000							21
22	26	882.340	26	882.340			33.94	0	22
23	28	942.230	28	942.230		-4	33.65	1	23
24	27	905.700	27	905.700			33.54	0	24
25	22	742.470	22	742.470			33.75	0	25
26	26	887.760	26	887.760			34.14	0	26
27	7	235.450	7	235.450			33.64	0	27
28	0	0.000				i			28
29	29	994.070	29	994.070			34.28	0	29
30	26	885.400	26	885.400			34.05	0	30
31	27	914.970	27	914.970			33.89	0	31
Totals:	606	20,542.930	606	20,542.930	0	0.000	33.90	6	

Note <sup>1</sup>: Average is for OWS & Riverbend Compacted Loads only. C:\Documents and Settings\lh10020\Local Settings\Temporary Internet Files\OLK228\ Site\_Rpts\_To\_AWTS-03\_2010.xlsx METRO CENTRAL MONTHLY RECYCLING REPORT

Mar-10

		YCLING 1			3,283.30			•	TOTAL R	ECOVE	RED TON	S	3,286.43
	R	E-USE TO	NS		3.13					<u> </u>			
DATE	DAY	Tires Recycling	Ferrous Metal	Organics	Foam Pad	Yard Debris	Cardboard	Non- Ferrous Metal	Glass	Plastic Jugs	Hog Fuel	Oil and Antifreeze	Batteries
1	Mon		10.03	70.02								1.49	1.75
2	Tue		5.56	71.85									
3	Wed			97.01							59.63		
4	Thu		13.59	95.66							58.10		
5.	Fri		7.94	72.38	1.23		25.90						
6	Sat			24.97						Ι			
7	Sun							.78					
8	Mon		14.03	71.58									
9	Tue		9.80	97.46							61.88		
10	Wed		*****	73.10							58.53		
11	Thu		5.56	48.91	.48			1			28,50		
12	Fri		13.05	75.10							57.25		
13	Sat												
14	Sun	11	··										
15	Mon		3.62	44.42							29.04		
16	Tue		14.52	70.49							29.15		
17	Wed	T		71.68							90.84	3.65	
18	Thu		12.09	74.88	1.02		· ·				29.93		
19	Fri		7.31	93.32							30.58		
20	Sat			46.47									
21	Sun												
22	Mon		10.36	74.98							28.52		
23	Tue	8.21	9.41	87.46							28.55		
24	Wed			43.14	.92						62.13		
25	Thu		9.32	23.75							57.50		
26	Fri	8.32	6.96	72.22					·		59.76		
27	Sat			74.28									
28	Sun									1.71			
29	Mon		13.73	71.64				3.12	6.69	÷	64.12		
30	Tue		9.72	94.21			24.07		5.96			2.42	
31	Wed	1.14	12.10	94.63	.47	18.87	21.71	2.86	.57				2.70
South Su	btraction		<u> </u>		479								
TOTAL	.S	17.67	188.70	1,835.61	4.12	18.87	71.68	6.76	13.22	1.71	834.01	7.56	4.45

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## METRO CENTRAL MONTHLY RECYCLING REPORT Mar-10

DATE	DAY	Oil Filters	Mixed Waste Paper	To Central Millwood	Film Plastics	Rubble	Electronics	Hard Plastics	To-Central Hard Plastics	To-Central Film Plastics	To-Central Compressors	Propane - lbs	Daily Total
1	Mon					8.85							92.14
2	Tue												77.41
3	Wed						5.77						162.41
4	Thu												167.35
5	Fri												107.45
6	Sat							\$					24.97
7	Sun				_						e .		0.78
8	Mon					15.30							100.91
9	Tue					42.03	3.21					0.40	214.78
10	Wed					32.84				-			164.47
11	Thu					52.99							136.44
12	Fri					22.66							168.06
13	Sat												0.00
14	Sun												0.00
15	Mon		.59				2.77						80.44
16	Tue					30.49	2.99						147.64
17	Wed					5.69							171.86
18	Thu												117.92
19	Fri												131.21
20	Sat								-		-		46.47
21	Sun												0.00
22	Mon												113.86
23	Tue		16.40			i							150.03
24	Wed					7.83	6.56						120.58
25	Thu										· · · · · · · · · · · · · · · · · · ·		90.57
26	Fri												147.26
27	Sat		1.35										75.63
28	Sun				.74								2.45
29	Mon												159.30
30	Tue		3.57				5.48						145.43
31	Wed		2.28			6.05		2.10					165.48
South Su													0.00
TOTA	LS	0.00	24.19	0.00	0.74	224.73	26.78	2.10	0.00	0.00	0.00	0.40	3,283.30

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# METRO CENTRAL RE-USABLE REPORT

March 10

DATE	DAY	Carpet	Textiles - Recycling	Community Recycling	Cracked Pots	Propane- 5's	Rebuilding Center	SVDP- Reuse	Plastic Nursery Pots	Daily Total
1	Mon						l l			.00
2	Tue			······						.00
3	Wed									.00
4	Thu									.00
5	Fri									.00
6	Sat									.00
7	Sun									.00
8	Mon									.00
9	Tue			-				······································		.00
10	Wed									.00
11	Thu									.00
12	Fri									.00
13	Sat									.00
14	Sun									.00
. 15	Mon									.00
16	Tue									.00
17	Wed									.00
18	Thu									.00
19	Fri							·		.00
20	Sat		_							.00
21	Sun		_							.00
22	Mon									.00
23	Tue					· ·				.00
24	Wed	· · · · · ·								.00
25	Thu									.00
26	Fri									.00
27	Sat									.00
28	Sun									.00
29	Mon							2.17		2.17
30	Tue					.96				.96
31	Wed									.00
TOTALS		0.00	0.00	0.00	0.00	0.96	0.00	2.17	0.00	3.13

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- Scale house monitors channels 1 and 2 at each site and ensures that proper notifications are made for each incident. Scalehouse notifies EC's on site, and contacts 9-1-1, Metro's Management Support Team (MST) and others as requested.
- ✓ Use this log to note details about every potential incident, accident, injury, near miss, false alarm etc. that occurs on site.

Date	Day	Time	Description of Initial Situation	Name of AWI IC	Name of HWF EC	Name of Scale- house EC	Was the site Evacuated ?	Was 9-1-1 called?	Any injuries ?	Comments?
3/10	Wed	2:30p	Walsh trasport trailer airfoil damaged possiblyduring load out	Mike C			· .			Trailer# 431
			· · · · · · · · · · · · · · · · · · ·							
				· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·	