

From: Burns, Sandra
Sent: Friday, May 16, 2003 7:37 AM
To: Marinshaw, Richard
Subject: FW: surface tension data

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

From: dela Cruz, Archi [mailto:Archi.delaCruz@sdcounty.ca.gov]
Sent: Thursday, May 15, 2003 5:55 PM
To: 'sandygeo@rti.org'; 'mulrine.phil@epa.gov'
Subject: surface tension data

Dear Ms. Sandy Burns,

Per your request, attached is a spreadsheet of surface tensions measured at Master Plating during the San Diego APCD and ARB's Barrio Logan air monitoring. Note: Master Plating was a decorative chrome plater employing a fume suppressant. Master Plating did not have a collection system / add-on control device. Additionally, the spreadsheet contains data of electrical current usage and additions made to the chrome tank (i.e., fume suppressants, water, chromic acid, etc.). I hope you find this data helpful. I would appreciate it if you keep me informed of progress with the Chrome NESHAP modifications. <<MP operating parameters.xls>>

Sincerely,

Archi dela Cruz
Senior Air Pollution Control Engineer
San Diego County Air Pollution Control District
9150 Chesapeake Drive
San Diego, CA 92131
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Master Plating

Decorative chrome electroplating tank operating parameters during ARB ambient monitoring at Barrio Logan.

Date	Part or Job Description	Time		Sample Number	Volts	Amps	Temp. (F)	Totalizer		Comments	Number of Drops	Specific Gravity	Surface Tension
		Part In	Part Out					Part In	Part Out				
2/6/2002	none	9:00:00	-	37.1C	0	0	-	67413	-	No plating during tank sampling	51.00	1.235	34.87
2/6/2002	none	9:55:00	-	37.2C	0	0	-	67413	-	No plating during tank sampling	43.00	1.242	41.59
2/6/2002	none	10:40:00	-	37.3C	0	0	-	67413	-	No plating during tank sampling	55.00	1.207	31.60
2/6/2002	Chrome Foam addition	11:00:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			39.00
2/6/2002	none	11:48:00	-	37.4C	0	0	-	67413	-	No plating during tank sampling	57.00	1.222	30.87
2/6/2002	Bath fixture	11:57:00	11:59:00	-	-	50	-	-	-	Data obtained from facility.			
2/6/2002	2' x3' frame x2	12:03:00	12:03:30	-	-	20	-	-	-	Data obtained from facility.			
2/6/2002	4 D/H rings	12:09:00	12:10:00	-	-	40	-	-	-	Data obtained from facility.			
2/6/2002	1 brake cal	12:14:00	12:16:00	-	-	100	-	-	-	Data obtained from facility.			
2/6/2002	1 stove top, 18" x 18"	12:25:00	12:28:00	-	-	400	-	-	-	Data obtained from facility.			
2/6/2002	2 brake calipers	13:12:00	13:14:00	-	-	120	-	-	-	Data obtained from facility.			
2/6/2002	none	13:15:00	-	37.5C	0	0	-	67497	-	No plating during tank sampling. Foam on tank.	48.00	1.229	36.87
2/6/2002	2 brake calipers	13:17:00	13:19:00	-	-	130	-	-	-	Data obtained from facility.			
2/6/2002	none	14:00:00	-	37.6C	7.5	125	-	67586	-	Part put in after tank sample taken.	47.00	1.242	38.05
2/6/2002	small nuts & bolts	14:20:00	14:21:00	-	-	60	-	-	-	Data obtained from facility.			
2/6/2002	none	14:45:00	-	37.7C	0	4.8	-	67606	-	No plating during tank sampling.	45.00	1.229	39.33
2/6/2002	1 bumper tip, 2' long	14:50:00	-	-	-	250	-	-	-	Data obtained from facility.			
2/6/2002	2 window posts	15:02:00	15:04:00	-	-	120	-	-	-	Data obtained from facility.			
2/6/2002	headlight bucket	15:07:00	15:09:00	-	-	200	-	-	-	Data obtained from facility.			
2/6/2002	4 windshield post molds	15:11:00	15:13:00	-	-	400	-	-	-	Data obtained from facility.			
2/7/2002	none	8:05:00	-	38.1C	0	0	112	67784	-	No plating during tank sampling. Chrome foam not added yet.	42.00	1.300	44.57
2/7/2002	none	9:05:00	-	38.2C	0	0	112	67784	-	No plating during tank sampling. Chrome foam not added yet.	43.00	1.300	43.53
2/7/2002	Chrome Foam addition	9:15:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			32.00
2/7/2002	2 bumper guards	9:31:00	9:32:30	-	-	120	-	-	-	Data obtained from facility.			
2/7/2002	2 bumper guards	9:36:00	9:37:30	-	-	150	-	-	-	Data obtained from facility.			
2/7/2002	none	10:05:00	-	38.3C	2.5	0	112	67803	-	No plating during tank sampling. 2 bumper guards - 90 sec each at 9:30 am.	41.00	1.200	42.15
2/7/2002	2 licence plates	10:25:00	10:26:30	-	-	100	-	-	-	Data obtained from facility.			
2/7/2002	1 grille	10:32:00	10:35:00	-	-	500	-	-	-	Data obtained from facility.			
2/7/2002	none	11:05:00	-	38.4C	2.5	0	112	67879	-	No plating during tank sampling. 2 license plate holders 90 sec / 1 grille 3 min at 10:30.	42.00	1.200	41.14
2/7/2002	2 door latches	11:50:00	11:51:30	38.5C	7	80	112	67879	-	Combination of District and facility data.	42.00	1.200	41.14
2/7/2002	2 rings, 2 sm levers	12:00:00	12:01:00	-	-	120	-	-	67885	Combination of District and facility data.			

2/7/2002	1 bike fender	12:05:00	12:07:30	-	-	450	-	-	-	Data obtained from facility.			
2/7/2002	none	13:05:00	-	38.6C	2.5	0	112	67932	-	No plating during tank sampling.	40.00	1.200	43.20
2/7/2002	none	14:05:00	-	38.7C	2.5	0	112	67932	-	No plating during tank sampling.	42.00	1.200	41.14
2/7/2002	4 H/L rings	14:08:00	14:09:30	-	-	300	-	-	-	Data obtained from facility.			
2/7/2002	2 hood bar extensions	14:13:00	14:15:00	-	-	180	-	-	-	Data obtained from facility.			
2/7/2002	1 bumper half	14:28:00	14:30:00	-	-	250	-	-	-	Data obtained from facility.			
2/7/2002	1 bumper half	14:33:00	14:35:00	-	-	250	-	-	-	Data obtained from facility.			
2/7/2002	2 tail lights	14:45:00	14:47:00	-	-	110	-	-	-	Data obtained from facility.			
2/7/2002	1 hood bar	14:49:00	14:51:00	-	-	250	-	-	-	Data obtained from facility.			
2/7/2002	2 door handles, 1 bumper guard	15:04:00	15:06:00	38.8C	6	100	-	68053	-	Combination of District and facility data.	40.00	1.200	43.20
2/7/2002	4 D/H size pcs	15:07:00	15:08:30	-	-	150	-	-	-	Data obtained from facility.			
2/7/2002	12 pins	15:12:00	15:13:00	-	-	70	-	-	-	Data obtained from facility.			
2/7/2002	6 pins	15:14:00	15:15:00	-	-	70	-	-	-	Data obtained from facility.			
2/7/2002	none	16:00:00	-	38.9C	0	0	112	68064	-	No plating during tank sampling.	40.00	1.200	43.20
2/8/2002	none	8:50:00	-	39.1C	0	0	112	68064	-	No plating during tank sampling. No chrome foam added.	44.00	1.200	39.27
2/8/2002	Chrome Foam addition	9:15:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			29.30
2/8/2002	1 Tail Light	9:50:00	9:52:00	39.2C	2.5	0	-	68076	68086	Facility measured surface tension prior to plating @ 29.3 dynes/cm.	44.00	1.200	39.27
2/8/2002	1 Tail Light	10:05:00	10:07:00	-	-	-	-	68086	68096	Data obtained from facility.			
2/8/2002	1 Air Intake	10:12:00	10:15:00	-	-	-	-	68096	68116	Data obtained from facility.			
2/8/2002	1 Air Intake	10:20:00	10:23:00	-	-	-	-	68116	68156	Data obtained from facility.			
2/8/2002	Bumper	10:35:00	10:38:00	-	-	-	-	68156	68225	Data obtained from facility.			
2/8/2002	Tank	10:45:00	10:48:00	-	-	-	-	68225	68258	Data acquired by facility.			
2/8/2002	Tank	11:05:00	-	39.3C	0	0	-	68258	-	No plating during tank sampling.	42.00	1.200	41.14
2/8/2002	Window Channel	11:15:00	11:16:00	-	-	-	-	68258	68264	Data obtained from facility.			
2/8/2002	Window Post	11:56:00	11:58:00	-	-	-	-	68264	68283	Data obtained from facility.			
2/8/2002	none	12:00:00	-	39.4C	6	0	-	68274	-	No plating during tank sampling.	40.00	1.200	43.20
2/8/2002	Bumper Guard	12:12:00	12:13:00	-	-	-	-	68283	68289	Data obtained from facility.			
2/8/2002	Misc Small Parts	12:22:00	12:23:00	-	-	-	-	68289	68300	Data obtained from facility.			
2/8/2002	Valve Cover	12:28:00	12:30:00	-	-	-	-	68300	68321	Data obtained from facility.			
2/8/2002	none	13:05:00	-	39.5C	8	0	-	68321	-	No plating during tank sampling.	40.00	1.100	39.60
2/8/2002	Bumper Tip	13:35:00	13:37:00	-	-	-	-	68321	68339	Data obtained from facility.			
2/8/2002	Winshield Frame	13:50:00	13:52:00	-	-	-	-	68339	68352	Data obtained from facility.			
2/8/2002	none	14:20:00	-	39.6C	2.5	-	-	68352	-	No plating during tank sampling.	40.00	1.200	43.20
2/8/2002	Grille Surround	14:25:00	14:28:00	-	-	-	-	68352	68407	Data obtained from facility.			
2/8/2002	Door Molding	14:55:00	14:57:00	-	-	-	-	68407	68429	Data obtained from facility.			
2/8/2002	Tail Light	15:15:00	15:17:00	-	-	-	-	68429	68434	Data obtained from facility.			

2/8/2002	DI water addition	15:20:00	-	-	-	-	-	-	-	-	Added 2' of DI water. Data obtained from facility.			
2/8/2002	none	16:40:00	-	39.7C	0	0	-	68434	-	-	Tank completed last load for day.	41.00	1.200	42.15
2/11/2002	none	8:10:00	-	42.1C	0	0	62	68434	-	-	No plating during tank sampling.	40.00	1.100	39.60
2/11/2002	none	9:15:00	-	-	0	0	62	68434	-	-				
2/11/2002	none	14:56:00	-	42.2C	0	0	-	68434	-	-	No plating during tank sampling.	37.00	1.200	46.70
2/12/2002	none	7:45:00	-	43.1C	0	0	60	68434	-	-	No plating during tank sampling.	35.50	1.216	49.30
2/12/2002	none	15:15:00	-	43.2C	0	0	-	68434	-	-	No plating during tank sampling.	35.00	1.200	49.37
2/13/2002	none	7:55:00	-	44.1C	0	0	80	68434	-	-	No plating during tank sampling. Tank warming up for plating.	36.00	1.228	49.12
2/13/2002	none	8:55:00	-	-	0	0	100	68434	-	-	No plating during tank sampling.			
2/13/2002	none	9:55:00	-	-	0	0	110	68434	-	-	No plating during tank sampling.			
2/13/2002	Chrome Foam addition	10:40:00	-	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			26.00
2/13/2002	none	10:55:00	-	-	0	0	110	68434	-	-	No plating during tank sampling.			
2/13/2002	small bike parts	10:58:00	10:59:00	-	-	-	-	68434	68448	-	Data obtained from facility.			
2/13/2002	small bike parts	11:01:00	11:02:00	-	-	-	-	68448	68459	-	Data obtained from facility.			
2/13/2002	4 table legs	11:10:00	11:13:00	-	-	-	-	68459	68483	-	Data obtained from facility.			
2/13/2002	2 rings	11:15:00	11:17:00	-	-	-	-	68483	68496	-	Data obtained from facility.			
2/13/2002	foot peg, small lamp	11:20:00	11:21:00	-	-	-	-	68496	68509	-	Data obtained from facility.			
2/13/2002	2 door posts	11:46:00	11:47:00	-	-	-	-	68509	68514	-	Data obtained from facility.			
2/13/2002	several	11:55:00	-	44.2C	4.3	0	110	68509	-	-	Several small parts plated within last hour.	38.50	1.246	46.60
2/13/2002	2 door posts	12:55:00	-	44.3C	4.5	0	110	68514	-	-		37.50	1.242	47.67
2/13/2002	foot peg	13:20:00	13:22:00	-	-	-	-	68514	68531	-	Data obtained from facility.			
2/13/2002	3 tail lights	13:27:00	13:26:00	-	-	-	-	68531	68543	-	Data obtained from facility.			
2/13/2002	Foot peg, 3 tail lights	13:55:00	-	44.4C	4.5	0	110	68543	-	-		38.50	1.246	46.58
2/13/2002	Foot peg	14:22:00	14:23:00	-	-	-	-	68543	68551	-	Data obtained from facility.			
2/13/2002	Small parts	14:50:00	14:51:00	44.5C	2.5	0	110	68551	68556	-	Combination of District and facility data.	38.00	1.250	47.37
2/13/2002	2 small trims	14:55:00	14:56:00	-	-	-	-	68556	68560	-	Data obtained from facility.			
2/13/2002	6 small pieces	14:58:00	15:00:00	-	-	-	-	68560	68575	-	Data obtained from facility.			
2/13/2002	none	15:45:00	-	44.6C	0	0	110	68575	-	-	Done plating for the day.	38.50	1.248	46.68
2/14/2002	none	7:20:00	-	45.1C	0	0	90	68575	-	-	No plating during tank sampling. Tank warming up. Tank covered.	38.50	1.255	46.94
2/14/2002	none	8:13:00	-	-	0	0	108	68575	-	-	No plating during tank sampling. Tank warming up. Tank covered.			
2/14/2002	none	9:10:00	-	-	0	0	118	68575	-	-	No plating during tank sampling. Tank warming up. Tank covered.			
2/14/2002	none	10:05:00	-	-	0	0	124	68575	-	-	No plating during tank sampling. Tank warming up. Tank covered.			
2/14/2002	Chrome Foam addition	10:50:00	-	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			25.00

2/14/2002	none	11:05:00	-	-	0	0	120	68575	-	No plating during tank sampling. Tank warming up. Tank covered.			
2/14/2002	Bumper tip	11:20:00	11:22:00	-	-	-	-	68575	68595	Data obtained from facility.			
2/14/2002	Small pieces	11:28:00	11:29:00	-	-	-	-	68595	68615	Data obtained from facility.			
2/14/2002	Small parts	11:30:00	11:31:00	-	-	-	-	68515	68623	Data obtained from facility.			
2/14/2002	several	12:05:00	-	45.2C	2.5	0	120	68623	-	Several parts plated during last hour.	39.00	1.243	45.90
2/14/2002	Bumper tip	12:15:00	12:17:00	-	-	-	-	68623	68637	Data obtained from facility.			
2/14/2002	Small pieces	12:20:00	12:22:00	-	-	-	-	68637	68652	Data obtained from facility.			
2/14/2002	1 trim	12:27:00	12:28:00	-	-	-	-	68652	68657	Data obtained from facility.			
2/14/2002	Bumper	12:47:00	12:50:00	-	-	-	-	68652	68710	Data obtained from facility.			
2/14/2002	several	13:05:00	-	45.3C	7	0	120	68710	-	Bumper and small parts.	38.00	1.240	46.99
2/14/2002	Small pieces	13:04:00	13:05:00	-	-	-	-	68710	68714	Data obtained from facility.			
2/14/2002	2 hub caps	13:08:00	13:20:00	-	-	-	-	68714	68736	Data obtained from facility.			
2/14/2002	4 hub caps	13:23:00	13:27:00	-	-	-	-	68736	68785	Data obtained from facility.			
2/14/2002	2 bumperettes	13:32:00	13:33:00	-	-	-	-	68785	68792	Data obtained from facility.			
2/14/2002	1 bumper tip	13:50:00	13:52:00	-	-	-	-	68792	68805	Data obtained from facility.			
2/14/2002	4 rings	14:00:00	14:01:00	-	-	-	-	68805	68817	Data obtained from facility.			
2/14/2002	several	14:05:00	-	45.4C	7	250	120	68821	-	Several small parts.	44.00	1.248	40.84
2/14/2002	2 rings	14:10:00	14:12:00	-	-	-	-	68817	68835	Data obtained from facility.			
2/14/2002	1 small ring	14:51:00	14:52:00	-	-	-	-	68835	68836	Data obtained from facility.			
2/14/2002	several	15:05:00	-	45.5C	2.5	0	120	68836	-	3 small parts.	39.50	1.242	45.28
2/14/2002	2 hubs	15:08:00	15:10:00	-	-	-	-	68836	68852	Data obtained from facility.			
2/14/2002	2 hubs, 2 rings	15:12:00	15:15:00	-	-	-	-	68852	68865	Data obtained from facility.			
2/14/2002	1 bumper	15:20:00	15:25:00	-	-	-	-	68865	68928	Data obtained from facility.			
2/14/2002	E brake	15:30:00	15:32:00	-	-	-	-	68928	68938	Data obtained from facility.			
2/14/2002	several	15:45:00	-	45.6C	0	0	120	68938	-	Several small parts. Completed plating for the day.	40.50	1.248	44.37
2/15/2002	none	7:10:00	-	46.1C	0	0	85	68938	-	No plating during tank sampling. Tank warming up.	38.50	1.242	46.45
2/15/2002	none	8:10:00	-	-	0	0	105	68938	-	No plating during tank sampling. Tank warming up.			
2/15/2002	none	9:10:00	-	-	0	0	120	68938	-	No plating during tank sampling. Tank warming up.			
2/15/2002	none	10:10:00	-	-	0	0	128	68938	-	No plating during tank sampling. Tank warming up.			
2/15/2002	none	11:10:00	-	-	0	0	128	68938	-	No plating during tank sampling. Tank warming up.			
2/15/2002	none	12:10:00	-	-	0	0	128	68938	-	No plating during tank sampling. Tank warming up.			
2/15/2002	Chrome Foam addition	12:15:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			25.00
2/15/2002	2 hub caps	12:29:00	12:31:00	-	-	-	-	68938	68960	Data obtained from facility.			
2/15/2002	1 hub cap	12:34:00	12:36:00	-	-	-	-	68960	68972	Data obtained from facility.			
2/15/2002	2 small parts	12:42:00	12:44:00	-	-	-	-	68972	68980	Data obtained from facility.			
2/15/2002	2 trims	13:00:00	13:02:00	-	-	-	-	68980	68993	Data obtained from facility.			

2/15/2002	Several during this prd.	13:10:00	-	46.2C	3.2	0	128	68993	-	Time in @ 13:00. Time out @ 13:02. Three hubcaps, 2 small parts.	39.00	1.269	46.86
2/15/2002	none	14:10:00	-	-	2.5	0	128	68993	-	No plating.			
2/15/2002	2 door handles, rins	14:20:00	14:23:00	-	-	-	-	68993	69008	Data obtained from facility.			
2/15/2002	4 hub caps	14:35:00	14:38:00	-	-	-	-	69008	69052	Data obtained from facility.			
2/15/2002	bumper tip	14:40:00	14:42:00	-	-	-	-	69052	69066	Data obtained from facility.			
2/15/2002	window trim, 4 D/H	14:45:00	14:47:00	-	-	-	-	69066	69092	Data obtained from facility.			
2/15/2002	small pieces	14:48:00	14:50:00	-	-	-	-	69092	69102	Data obtained from facility.			
2/15/2002	small pieces	14:52:00	14:54:00	-	-	-	-	69102	69117	Data obtained from facility.			
2/15/2002	2 tail lights	15:00:00	15:03:00	-	-	-	-	69117	69128	Data obtained from facility.			
2/15/2002	1 hub cap	15:10:00	15:12:00	-	-	-	-	69128	69141	Data obtained from facility.			
2/15/2002	Several during this prd.	15:20:00	-	46.3C	0	0	128	69141	-	Completed plating for the day.	40.00	1.260	45.36
2/19/2002	none	7:40:00	-	50.1C	0	0	58	69141	-	No plating.	39.50	1.265	46.12
2/19/2002	none	14:40:00	-	50.2C	0	0	60	69141	-	No plating.	39.00	1.255	46.34
2/20/2002	none	7:45:00	-	51.1C	0	0	58	69141	-	No plating.	40.00	1.247	44.87
2/20/2002	none	14:45:00	-	51.2C	0	0	-	69141	-	No plating.	34.75	1.217	50.43
2/21/2002	none	7:50:00	-	52.1C	0	0	60	69141	-	No plating.	35.00	1.217	50.07
2/21/2002	none	8:40:00	-	-	0	0	-	69141	-	No plating. Tank warming up.			
2/21/2002	none	9:40:00	-	-	0	0	105	69141	-	No plating. Tank warming up.			
2/21/2002	dummy 2' x 3' sheet metal	9:30:00	10:30:00	-	-	-	-	69141	69446	Electrician testing totalizer using a dummy part. Totalizer re-calibrated by electrician.			
2/21/2002	Chrome Foam addition	10:32:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			23.80
2/21/2002	dummy 2' x 3' sheet metal	10:40:00	-	52.2C	7	500	-	69432	-	Electrician testing totalizer using a dummy part. Totalizer re-calibrated by electrician.	41.50	1.216	42.19
2/21/2002	8 rings	10:42:00	10:43:00	-	-	-	-	69446	69452	Data obtained from facility.			
2/21/2002	12 rings	11:04:00	11:06:00	-	-	-	-	69452	69459	Data obtained from facility.			
2/21/2002	10 rings	11:08:00	11:09:00	-	-	-	-	69459	69464	Data obtained from facility.			
2/21/2002	several	11:40:00	-	52.3C	3.5	0	-	69464	-	About 30 small parts plated.	40.00	1.254	45.14
2/21/2002	2 forks, 1 foot peg	12:25:00	12:27:00	-	-	-	-	69464	69473	Data obtained from facility.			
2/21/2002	none	12:40:00	-	-	3.5	0	-	69464	-				
2/21/2002	2 large rings	12:35:00	12:37:00					69473	69480	Data obtained from facility.			
2/21/2002	several	13:40:00	-	52.4C	3	0	-	69480	-	Five parts.	38.50	1.251	46.79
2/21/2002	3 hub caps	14:10:00	14:12:00	-	-	-	-	69480	69490	Data obtained from facility.			
2/21/2002	bumper	14:22:00	14:25:00	-	-	-	-	69490	69508	Data obtained from facility.			
2/21/2002	exhaust pipe	14:27:00	14:29:00	-	-	-	-	69508	69527	Data obtained from facility.			
2/21/2002	small pieces	14:31:00	14:33:00	-	-	-	-	69527	69532	Data obtained from facility.			
2/21/2002	several	14:40:00	-	52.5C	7.5	0	-	69532	-	Bumper, exhaust, small parts.	38.50	1.252	46.83

2/21/2002	exhaust pipe	14:45:00	14:47:00	-	-	-	-	69532	69545	Data obtained from facility.			
2/21/2002	pipe	15:40:00	-	52.6C	0	0	-	69564	-	Done plating for today. Exhaust pipe.	38.00	1.245	47.18
2/22/2002	none	8:10:00	-	53.1C	0	0	120	69564	-	No plating.	38.50	1.248	46.68
2/22/2002	Chrome Foam addition	11:05:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			28.00
2/22/2002	bumper	11:26:00	11:30:00	-	-	-	-	69545	69685	Data obtained from facility.			
2/22/2002	bumper tips	11:51:00	11:53:00	-	-	-	-	69685	69687	Data obtained from facility.			
2/22/2002	bumper	12:10:00	-	53.2C	0	0	-	69687	-	Bumper.	39.00	1.254	46.30
2/22/2002	small pieces	12:10:00	12:12:00	-	-	-	-	69687	69690	Data obtained from facility.			
2/22/2002	4 bumper guards	12:14:00	12:16:00	-	-	-	-	69690	69705	Data obtained from facility.			
2/22/2002	2 rings	12:20:00	12:22:00	-	-	-	-	69705	69712	Data obtained from facility.			
2/22/2002	bumper	12:27:00	12:30:00	-	-	-	-	69712	69732	Data obtained from facility.			
2/22/2002	center bumper section	12:32:00	12:35:00	-	-	-	-	69732	69753	Data obtained from facility.			
2/22/2002	2 rings	12:43:00	12:44:00	-	-	-	-	69753	69757	Data obtained from facility.			
2/22/2002	1 small piece, bumper guard	12:45:00	12:47:00	-	-	-	-	69757	69765	Data obtained from facility.			
2/22/2002	2 bumper tips	12:50:00	12:53:00	-	-	-	-	69765	69795	Data obtained from facility.			
2/22/2002	2 bumper guards	12:55:00	12:57:00	-	-	-	-	69795	69807	Data obtained from facility.			
2/22/2002	2 rings, 2 trims	13:05:00	13:07:00	-	-	-	-	69807	69820	Data obtained from facility.			
2/22/2002	several	13:10:00	-	53.3C	0	0	-	69763	-	Front door open.	39.00	1.252	46.23
2/22/2002	1 long trim	13:25:00	13:27:00	-	-	-	-	69820	69833	Data obtained from facility.			
2/22/2002	1 long trim	13:28:00	13:30:00	-	-	-	-	69833	69840	Data obtained from facility.			
2/22/2002	exhaust pipe	13:39:00	13:42:00	-	-	-	-	69840	69863	Data obtained from facility.			
2/22/2002	grille bar	14:05:00	14:09:00	-	-	-	-	69863	69897	Data obtained from facility.			
2/22/2002	several	14:10:00	-	53.4C	0	0	-	69863	-	Front door open.	39.00	1.246	46.01
2/22/2002	grille bar extension	14:15:00	14:17:00	-	-	-	-	69897	69903	Data obtained from facility.			
2/22/2002	small pieces	14:20:00	14:23:00	-	-	-	-	69903	69918	Data obtained from facility.			
2/22/2002	grille bar	14:26:00	14:29:00	-	-	-	-	69912	69941	Data obtained from facility.			
2/22/2002	several	15:10:00	-	53.5C	0	0	-	69941	-	Front door open. Done plating for today.	38.50	1.240	46.38
2/25/2002	none	7:40:00	-	56.1C	0	0	60	69953	-	No plating. Front door open.	39.00	1.238	45.71
2/25/2002	none	15:40:00	-	56.2C	0	0	-	69953	-	No plating. Front door open. Done plating for today.	39.50	1.245	45.37
2/26/2002	none	7:40:00	-	57.1C	0	0	59	69953	-	No plating. Front door open.	39.50	1.257	45.82
2/26/2002	none	15:00:00	-	57.2C	0	0	-	69953	-	No plating. Front door open. Done plating for today.	39.00	1.236	45.64
2/27/2002	none	7:55:00	-	-	-	-	130	69953	-	No plating. Door open.			
2/27/2002	air agitation	8:15:00	8:17:00	-	-	-	-	-	-	Air agitation conducted for about 2 minutes. Data obtained from facility.			

2/27/2002	Chrome Foam addition	8:25:00	-	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			25.50
2/27/2002	5 stanchion bases	8:35:00	8:37:00	-	-	-	-	69953	69961		Data obtained from facility.			
2/27/2002	5 bases stanchion	8:40:00		58.1C	7.8	400	130	69953	-		5 parts in at 8:40 am. Door open.	47.50	1.250	37.89
2/27/2002	5 stanchion bases	8:40:00	8:42:00	-	-	-	-	69961	69971		Data obtained from facility.			
2/27/2002	5 stanchion bases	8:43:00	8:45:00	-	-	-	-	69971	69977		Data obtained from facility.			
2/27/2002	5 stanchion bases	8:51:00	8:53:00	-	-	-	-	69977	69987		Data obtained from facility.			
2/27/2002	2 trims	8:58:00	9:00:00	-	-	-	-	69987	69990		Data obtained from facility.			
2/27/2002	3 trims	9:01:00	9:03:00	-	-	-	-	69990	69995		Data obtained from facility.			
2/27/2002	3 trims	9:05:00	9:07:00	-	-	-	-	69995	70002		Data obtained from facility.			
2/27/2002	2 trims	9:10:00	9:12:00	-	-	-	-	70002	70006		Data obtained from facility.			
2/27/2002	2 cleats, 1 emblem	9:23:00	9:26:00	-	-	-	-	70006	70034		Data obtained from facility.			
2/27/2002	2 trims	9:38:00	9:39:00	-	-	-	-	70034	70038		Data obtained from facility.			
2/27/2002	2 trims	9:40:00	-	58.2C	5.5	175	130	70036	-		2 parts in at 9:38 am. Door open.	40.00	1.267	45.61
2/27/2002	none	10:40:00	-	58.3C	3.4	0	130	70038	-		No plating. Took sample. Door open.	40.50	1.267	45.05
2/27/2002	3 trims	11:07:00	11:09:00	-	-	-	-	70038	70051		Data obtained from facility.			
2/27/2002	3 hubcaps	11:40:00	-	58.4C	5.7	0	130	70073	-		3 parts in at 11:47 am. Door open.	40.00	1.275	45.90
2/27/2002	3 hubcaps	11:47:00	11:50:00	-	-	-	-	70051	70073		Data obtained from facility.			
2/27/2002	3 trims	12:00:00	12:02:00	-	-	-	-	70073	70082		Data obtained from facility.			
2/27/2002	4 small trims	12:05:00	12:07:00	-	-	-	-	70082	70086		Data obtained from facility.			
2/27/2002	2 trims	12:13:00	12:15:00	-	-	-	-	70086	70090		Data obtained from facility.			
2/27/2002	none	12:40:00	-	58.5C	3.5	0	128	70090	-		No plating. Took sample. Door closed.	39.50	1.268	46.23
2/27/2002	5 trims	13:40:00	-	58.6C	3.5	0	130	70090	-		5 parts in at 13:43. Door open.	39.50	1.257	45.82
2/27/2002	5 trims	13:43:00	13:46:00	-	-	-	-	70090	70102		Data obtained from facility.			
2/27/2002	none	14:40:00	-	58.7C	0.2	0	130	70102	-		No plating. Took sample. Door closed.	40.00	1.260	45.36
2/28/2002	none	7:45:00	-	59.1C	0.2	0	108	70102	-		No plating. Door 1/2 open.	39.00	1.253	46.26
2/28/2002	none	8:40:00	-	-	0.2	0	118	70102	-					
2/28/2002	none	9:40:00	-	-	0.2	0	122	70102	-		No plating. Door closed.			
2/28/2002	1 part	10:40:00	-	59.2C	0.2	0	121	70102	-		1 small samauar. Door 1/2 closed.	42.50	1.243	42.10
2/28/2002	Chrome Foam addition	10:38:00	-	-	-	-	-	-	-		Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			26.30
2/28/2002	1 small samavar	10:45:00	10:47:00	-	-	-	-	70102	70107		Data obtained from facility.			
2/28/2002	1 small top	10:49:00	10:51:00	-	-	-	-	70107	70110		Data obtained from facility.			
2/28/2002	1 small piece	10:56:00	10:58:00	-	-	-	-	70110	70118		Data obtained from facility.			
2/28/2002	none	11:40:00	-	59.3C	3.6	0	121	70118	-		Door open.	41.00	1.256	44.11
2/28/2002	1 L/P trane	11:52:00	11:53:00	-	-	-	-	70118	70120		Data obtained from facility.			
2/28/2002	Bumper tip	12:15:00	12:17:00	-	-	-	-	70120	70125		Data obtained from facility.			
2/28/2002	1 rim	12:24:00	12:27:00	-	-	-	-	70125	70133		Data obtained from facility.			

2/28/2002	1 rim	12:30:00	12:33:00	-	-	-	-	70133	70146	Data obtained from facility.			
2/28/2002	2 parts	12:40:00	-	59.4C	7	0	121	70146	-	Bumper tip & 1 trim. Door 1/2 open.	40.00	1.268	45.65
2/28/2002	Bumper	12:40:00	12:45:00	-	-	-	-	70146	70247	Data obtained from facility.			
2/28/2002	4 trims	13:05:00	13:07:00	-	-	-	-	70247	70251	Data obtained from facility.			
2/28/2002	2 trims	13:09:00	13:11:00	-	-	-	-	70251	70258	Data obtained from facility.			
2/28/2002	2 trims	13:12:00	13:14:00	-	-	-	-	70258	70262	Data obtained from facility.			
2/28/2002	none	13:40:00	-	59.5C	3.6	0	130	70262	-	Door open.	40.00	1.270	45.72
2/28/2002	Chair	14:05:00	14:07:00	-	-	-	-	70262	70273	Data obtained from facility.			
2/28/2002	Chair	14:09:00	14:11:00	-	-	-	-	70273	70284	Data obtained from facility.			
2/28/2002	2 small pieces	14:12:00	14:14:00	-	-	-	-	70284	70290	Data obtained from facility.			
2/28/2002	2 trains	14:25:00	14:27:00	-	-	-	-	70290	70292	Data obtained from facility.			
2/28/2002	4 small pieces	14:32:00	14:34:00	-	-	-	-	70292	70297	Data obtained from facility.			
2/28/2002	2 trims	14:40:00	-	59.6C	3.5	0	120	70297	-	2 trims. Door open. Shop closed at 15:00.	39.00	1.258	46.45
2/28/2002	2 rings	14:53:00	14:55:00	-	-	-	-	70297	70307	Data obtained from facility.			
2/28/2002	1 bumper guard	14:56:00	14:59:00	-	-	-	-	70307	70316	Data obtained from facility.			
2/28/2002	Chair	15:02:00	15:04:00	-	-	-	-	70316	70322	Data obtained from facility.			
2/28/2002	Chair	15:06:00	15:08:00	-	-	-	-	70322	70327	Data obtained from facility.			
3/1/2002	none	7:40:00	-	60.1C	0	0	120	70327	-	No plating. Front door 1/2 open.	40.00	1.263	45.47
3/1/2002	none	8:40:00	-		0	0	-	70328	-	No plating. Front door 1/2 open.			
3/1/2002	none	9:40:00	-		0	0	-	70328	-	No plating. Front door fully open.			
3/1/2002	Chrome Foam addition	10:02:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			26.30
3/1/2002	Air intake	10:15:00	10:17:00	-	-	-	-	70328	70342	Data obtained from facility.			
3/1/2002	Air intake	10:21:00	10:24:00	-	-	-	-	70342	70352	Data obtained from facility.			
3/1/2002	2 wiper arm	10:26:00	10:27:00	-	-	-	-	70352	70353	Data obtained from facility.			
3/1/2002	2 trims	10:31:00	10:34:00	-	-	-	-	70353	70365	Data obtained from facility.			
3/1/2002	2 rods	10:37:00	10:40:00	-	-	-	-	70365	70368	Data obtained from facility.			
3/1/2002	Arm, air intake	10:40:00	-	60.2C	0	0	-	70365	-	Plating. Front door fully open.	41.00	1.251	43.94
3/1/2002	2 door handles	10:45:00	10:47:00	-	-	-	-	70368	70372	Data obtained from facility.			
3/1/2002	2 trims	10:55:00	10:57:00	-	-	-	-	70372	70378	Data obtained from facility.			
3/1/2002	windshield frame	11:20:00	11:22:00	-	-	-	-	70378	70394	Data obtained from facility.			
3/1/2002	Trims & brake lever	11:25:00	11:27:00	-	-	-	-	70394	70399	Data obtained from facility.			
3/1/2002	Mirror back	11:30:00	11:32:00	-	-	-	-	70399	70401	Data obtained from facility.			
3/1/2002	2 headlight rings	11:35:00	11:37:00	-	-	-	-	70401	70405	Data obtained from facility.			
3/1/2002	Trim, wind handle	11:40:00	-	60.3C	5.5	220	-	70398	-	Plating. Front door fully open.	41.00	1.257	44.15
3/1/2002	Rings	12:45:00	-	60.4C	0	0	-	70405	-	Plating. Front door closed.	40.00	1.273	45.83
3/1/2002	8 small pieces	13:20:00	13:23:00	-	-	-	-	70405	70436	Data obtained from facility.			

3/1/2002	L/P light	13:37:00	13:39:00	-	-	-	-	70436	70439	Data obtained from facility.			
3/1/2002	Door handle	13:42:00	13:44:00	-	-	-	-	70439	70443	Data obtained from facility.			
3/1/2002	Small pieces	13:45:00	-	60.5C	7	0	-	70443	-	Plating. Front door fully open.	40.00	1.275	45.90
3/1/2002	Bumper guard	13:56:00	13:59:00	-	-	-	-	70443	70453	Data obtained from facility.			
3/1/2002	Hood bar extension	14:00:00	14:02:00	-	-	-	-	70453	70461	Data obtained from facility.			
3/1/2002	2 rings	14:08:00	14:10:00	-	-	-	-	70461	70465	Data obtained from facility.			
3/1/2002	5 mirrors	14:16:00	14:19:00	-	-	-	-	70465	70475	Data obtained from facility.			
3/1/2002	Small pieces	14:21:00	14:23:00	-	-	-	-	70475	70482	Data obtained from facility.			
3/1/2002	Bumper	14:31:00	14:35:00	-	-	-	-	70482	70517	Data obtained from facility.			
3/1/2002	Several	14:40:00	-	60.6C	4	0	-	70482	-	Plating. Door 1/2 open.	40.00	1.275	45.90
3/1/2002	Bumper	14:57:00	15:00:00	-	-	-	-	70517	70536	Data obtained from facility.			
3/1/2002	Bumper	15:30:00	-	60.7C	0	0	-	70536	-	Done plating. Door 1/2 open.	40.50	1.259	44.76
3/4/2002	none	7:40:00	-	63.1C	0	0	120	70536	-	No plating. Front door open. Tank heater left on over weekend.	41.00	1.276	44.80
3/4/2002	none	8:45:00	-	-	0	0		70536	-	No plating. Front door open.			
3/4/2002	none	9:40:00	-	-	0	0		70536	-	No plating. Front door open.			
3/4/2002	none	10:40:00	-	-	0	0		70536	-	No plating. Front door open.			
3/4/2002	none	11:40:00	-	-	0	0		70536	-	No plating. Front door open.			
3/4/2002	none	12:40:00	-	-	0.3	0	106	70536	-	No plating. Front door open.			
3/4/2002	none	13:40:00	-	-	0.3	0		70536	-	No plating. Front door open.			
3/4/2002	none	14:40:00	-	-	0.3	0		70536	-	No plating. Front door open.			
3/4/2002	none	15:30:00	-	63.2C	0.3	0		70536	-	No plating. Front door open. Last sample taken for the day.	40.00	1.279	46.04
3/5/2002	none	7:55:00	-	64.1C	0.2	0	78	70536	-	No plating. Door 1/4 open.	41.25	1.293	45.14
3/5/2002	none	8:55:00	-	-	0.2	0		70536	-	No plating. Door open. Last sample.			
3/5/2002	none	9:55:00	-	-	0.2	0	78	70536	-	No plating. Door open.			
3/5/2002	none	10:55:00	-	-	0.2	0		70536	-	No plating. Door open.			
3/5/2002	none	11:55:00	-	-	0.2	0		70536	-	No plating. Door open.			
3/5/2002	none	12:55:00	-	-	0.2	0		70536	-	No plating. Door open.			
3/5/2002	none	13:55:00	-	-	0.2	0		70536	-	No plating. Door open.			
3/5/2002	Rinse water addition	14:00:00	-	-	-	-	-	-	-	Added 2" of rinse water. Data obtained from facility.			
3/5/2002	none	14:55:00	-	64.2C	0.2	0	78	70536	-	No plating. Door open.	32.25	1.188	53.02
3/6/2002	none	7:40:00	-	65.1C	0.2	0	98	70536	-	No plating. Door open. Will plate today.	44.50	1.118	36.17
3/6/2002	none	8:40:00	-	65.1AA	-	-	-	70536	-	No plating. Door open. Will plate today. Surface tension measured by District with Master Plating stalagmometer.	35.50	1.188	48.19
3/6/2002	none	8:40:00	-	65.2AA	-	-	-	70536	-	No plating. Door open. Will plate today. Surface tension measured by District with Master Plating stalagmometer.	46.00	1.204	37.69
3/6/2002	Chrome Foam addition	9:15:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Data obtained from facility.			

3/6/2002	Air agitation	9:23:00	9:23:30	-	-	-	-	-	-	-	Air agitation for 30 minutes to mix Chrome Foam addition.			
3/6/2002	none	9:40:00	-	65.3AA	-	-	-	70536	-	-	No plating. Door open. Will plate today. Surface tension measured by District with Master Plating stalagmomter.	38.50	1.193	44.62
3/6/2002	none	9:40:00	-	65.4AA	-	-	-	70536	-	-	No plating. Door open. Will plate today. Surface tension measured by District with Master Plating stalagmomter.	46.50	1.203	37.25
3/6/2002	Surface tension	10:00:00	-	-	-	-	-	-	-	-	Surface tension measured by facility. Data obtained from facility.			33.00
3/6/2002	none	10:40:00	-	-	0.2	0	110	70536	-	-	No plating. Door open. Will plate today.			
3/6/2002	2 rings, 2 fog lights	10:50:00	10:53:00	-	-	-	-	70536	70547	-	Data obtained from facility.			
3/6/2002	4 small pieces	10:55:00	10:57:00	-	-	-	-	70547	70555	-	Data obtained from facility.			
3/6/2002	2 windshield posts	11:04:00	11:06:00	-	-	-	-	70555	70560	-	Data obtained from facility.			
3/6/2002	small piece	11:10:00	11:11:00	-	-	-	-	70560	70562	-	Data obtained from facility.			
3/6/2002	2 rings	11:13:00	11:15:00	-	-	-	-	70562	70571	-	Data obtained from facility.			
3/6/2002	several pieces	11:40:00	-	65.2C	3.7	0	120	70536	70571	-	Plating several pieces in at 10:50 and out at 11:15. Door open.	39.00	1.232	45.49
3/6/2002	2 rims	12:30:00	12:37:00	-	-	-	-	70571	70585	-	Data obtained from facility.			
3/6/2002	2 rims	12:38:00	12:40:00	-	-	-	-	70585	70600	-	Data obtained from facility.			
3/6/2002	2 tail lights	12:38:00	12:40:00	-	-	-	-	70600	70606	-	Data obtained from facility.			
3/6/2002	6 parts	12:40:00	-	65.3C	6.7	200	120	70571	70614	-	Plating 6 pieces (2 pieces in 12:42). Door open. Back door wide open.	39.50	1.232	44.91
3/6/2002	2 misc pieces	12:42:00	12:44:00	-	-	-	-	70606	70614	-	Data obtained from facility.			
3/6/2002	window trim	12:46:00	12:48:00	-	-	-	-	70614	70620	-	Data obtained from facility.			
3/6/2002	3 small pieces	12:53:00	12:55:00	-	-	-	-	70620	70622	-	Data obtained from facility.			
3/6/2002	window trim	13:00:00	13:03:00	-	-	-	-	70622	70629	-	Data obtained from facility.			
3/6/2002	emblem	13:08:00	13:09:00	-	-	-	-	70629	70630	-	Data obtained from facility.			
3/6/2002	5 parts	13:40:00	-	65.4C	3.6	0	120	70614	70630	-	Door open.	40.00	1.240	44.64
3/6/2002	none	14:40:00	-	65.5C	3.7	0	120	70630	-	-	Door open. Last sample. Facility did plating after last sample taken. Facility closed at 15:30.	39.00	1.246	46.01
3/6/2002	grille surround	15:02:00	15:05:00	-	-	-	-	70630	70650	-	Data obtained from facility.			
3/7/2002	none	7:55:00	-	66.1C	0.2	0	104	70650	-	-	No plating. Front door closed. Back door open. Will plate today.	38.00	1.243	47.10
3/7/2002	-	-	-	-	-	-	-	-	-	-	Note: inspectors recommended to leave around 8:00 due to Master Plating press release.			
3/7/2002	Chrome Foam addition	9:05:00	-	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			32.00
3/7/2002	bumper half	9:20:00	9:24:00	-	-	-	-	70650	70673	-	Data obtained from facility.			
3/7/2002	bumper half	9:25:00	9:28:00	-	-	-	-	70673	70695	-	Data obtained from facility.			
3/7/2002	4 tail lights	9:45:00	9:47:00					70695	70701	-	Data obtained from facility.			
3/7/2002	4 seat brackets	9:50:00	9:53:00					70701	70708	-	Data obtained from facility.			
3/7/2002	bumper center	10:00:00	10:03:00					70708	70728	-	Data obtained from facility.			
3/7/2002	headlight ring	10:07:00	10:09:00					70728	70735	-	Data obtained from facility.			
3/7/2002	misc parts	14:30:00	14:33:00					70735	70749	-	Data obtained from facility.			
3/7/2002	grille top trim	14:35:00	14:37:00					70749	70753	-	Data obtained from facility.			
3/7/2002	2 tail lights	14:42:00	14:44:00					70753	70765	-	Data obtained from facility.			
3/7/2002	2 bumper guards	14:46:00	14:48:00					70765	70769	-	Data obtained from facility.			

3/7/2002	bumper	14:49:00	14:51:00					70769	70776	Data obtained from facility.			
3/7/2002	small piece	14:53:00	14:55:00					70776	70781	Data obtained from facility.			
3/7/2002	light fixture	14:57:00	15:00:00					70781	70792	Data obtained from facility.			
3/8/2002	none	10:40:00	-	030802.1C	0	0	60	70792	-	No plating. Front door open.	38.00	1.242	47.07
3/8/2002	none	15:10:00	-	030802.2C	0	0	-	70792	-	No plating. Front door open. Closing for the day.	38.00	1.240	46.99
3/11/2002	none	8:40:00	-	69.1C	0.2	0	68	70792	-	No plating. Door open.	38.00	1.282	48.58
3/11/2002	none	9:40:00	-	-	0.2	0	-	70792	-	No plating. Door open.			
3/11/2002	none	10:40:00	-	-	0.2	0	-	70792	-	No plating. Door open.			
3/11/2002	none	11:40:00	-	-	0.2	0	-	70792	-	No plating. Door open.			
3/11/2002	none	12:40:00	-	-	0.2	0	68	70792	-	No plating. Door open.			
3/11/2002	none	13:40:00	-	-	0.2	0	-	70792	-	No plating. Door open.			
3/11/2002	none	14:40:00	-	69.2C	0.2	0	68	70792	-	No plating. Door open. Last sample taken.	38.50	1.256	46.98
3/12/2002	none	7:40:00	-	031202.1C	0	0	60	70792	-	No plating. Front and back doors open.	38.50	1.243	46.49
3/12/2002	none	8:40:00	-	-	0	0	60	70792	-	No plating. Front and back doors open.			
3/12/2002	none	9:40:00	-	-	0	0	-	70792	-	No plating. Front and back doors open.			
3/12/2002	none	10:40:00	-	-	0	0	-	70792	-	No plating. Front and back doors open.			
3/12/2002	none	11:40:00	-	-	0	0	-	70792	-	No plating. Front and back doors open.			
3/12/2002	none	12:40:00	-	-	0	0	-	70792	-	No plating. Front and back doors open.			
3/12/2002	none	13:40:00	-	-	0	0	-	70792	-	No plating. Front and back doors open.			
3/12/2002	none	14:40:00	-	031202.2C	0	0	60	70792	-	No plating. Front and back doors open. Last sample taken.	38.50	1.245	46.57
3/13/2002	none	7:40:00	-	031302.1C	0	0	60	70792	-	No plating. Front door open.	40.50	1.243	44.20
3/13/2002	none	8:40:00	-	-	0	0	-	70792	-	No plating. Front door open.			
3/13/2002	none	9:40:00	-	-	0	0	-	70792	-	No plating. Front door open.			
3/13/2002	none	10:40:00	-	-	0	0	-	70792	-	No plating. Front door open.			
3/13/2002	none	11:40:00	-	-	0	0	-	70792	-	No plating. Front and back doors open. Fan is running.			
3/13/2002	none	12:40:00	-	-	0	0	-	70792	-	No plating. Front and door open. Back door closed. Fan is running.			
3/13/2002	none	13:40:00	-	-	0	0	-	70792	-	No plating. Front and door open. Back door closed. Fan is running.			
3/13/2002	none	14:40:00	-	031302.2C	0	0	100	70792	-	No plating. Front and door open. Back door closed. Fan is running. Last sample.	39.25	1.236	45.35
3/14/2002	none	7:50:00	-	031402.1C	0	0	130	70792	-	No plating. Front and back doors open. Fan is running.	38.25	1.253	47.17
3/14/2002	none	8:50:00	-	-	0	0	130	70792	-	No plating. Front and back doors open. Fan is running.			
3/14/2002	none	9:50:00	-	-	0	0	128	70792	-	No plating. Front and back doors open. Fan is running.			
3/14/2002	none	10:50:00	-	-	0	0	120	70792	-	No plating. Front and back doors open. Fan is running.			

3/14/2002	Chrome Foam addition	11:35:00	-	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			29.80
3/14/2002	none	11:50:00	-	031402.2C	3.6	0	120	70792	-	-	Will start plating soon.	44.00	1.243	40.68
3/14/2002	Horn base	12:05:00	12:08:00	-	-	-	-	70792	70798	-	Data obtained from facility.			
3/14/2002	Horn base	12:13:00	12:15:00	-	-	-	-	70798	70806	-	Data obtained from facility.			
3/14/2002	Handles	12:15:00	12:17:00	-	-	-	-	70806	70811	-	Data obtained from facility.			
3/14/2002	6 small pieces	12:22:00	12:25:00	-	-	-	-	70811	70817	-	Data obtained from facility.			
3/14/2002	Horn base	12:26:00	12:28:00	-	-	-	-	70817	70823	-	Data obtained from facility.			
3/14/2002	6 handles	12:30:00	12:32:00	-	-	-	-	70823	70826	-	Data obtained from facility.			
3/14/2002	16 parts	12:50:00	-	031402.3C	3.7	0	120	70826	-	-	16 parts plated since last sample.	39.50	1.234	44.99
3/14/2002	3 brackets	13:10:00	13:12:00	-	-	-	-	70826	70831	-	Data obtained from facility.			
3/14/2002	3 parts	13:50:00	-	031402.4C	3.8	0	120	70831	-	-	3 parts plated since last sample.	39.50	1.227	44.73
3/14/2002	2 round plates	14:15:00	14:17:00	-	-	-	-	70831	70835	-	Data obtained from facility.			
3/14/2002	2 light bases	14:22:00	14:26:00	-	-	-	-	70835	70867	-	Data obtained from facility.			
3/14/2002	2 tail lights	14:28:00	14:31:00	-	-	-	-	70867	70878	-	Data obtained from facility.			
3/14/2002	3 hubcaps	14:33:00	14:35:00	-	-	-	-	70878	70899	-	Data obtained from facility.			
3/14/2002	1/2 bumper	14:37:00	14:39:00	-	-	-	-	70899	70910	-	Data obtained from facility.			
3/14/2002	1 plate	14:45:00	14:48:00	-	-	-	-	70910	70916	-	Data obtained from facility.			
3/14/2002	9 parts	14:50:00	-	031402.5C	6.4	275	120	70913	-	-	9 parts plated since last sample.	39.00	1.243	45.90
3/14/2002	2 lights	15:01:00	15:03:00	-	-	-	-	70916	70939	-	Data obtained from facility.			
3/14/2002	2 wing windows	15:04:00	15:06:00	-	-	-	-	70939	70945	-	Data obtained from facility.			
3/14/2002	3 bumper guards	15:06:00	15:09:00	-	-	-	-	70945	70960	-	Data obtained from facility.			
3/14/2002	9 small pieces	15:17:00	15:20:00	-	-	-	-	70960	70971	-	Data obtained from facility.			
3/14/2002	17 parts	15:50:00	-	031402.6C	0	0	114	70971	-	-	17 parts plated since last sample. No plating. Front and back doors open. Fan off.	38.50	1.236	46.23
3/15/2002	none	7:40:00	-	74.1C	0	0	110	70971	-	-	No plating. Front and back doors open. Fan is running.	39.00	1.249	46.12
3/15/2002	none	8:40:00	-	-	0	0	120	70971	-	-	No plating. Front and back doors open. Fan is running.			
3/15/2002	Chrome Foam addition	9:00:00	-	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			30.80
3/15/2002	none	9:40:00	-	-	0	0	120	70971	-	-	No plating. Front and back doors open. Fan is running.			
3/15/2002	2 hinges	9:42:00	9:45:00	-	-	-	-	70971	70977	-	Data obtained from facility.			
3/15/2002	6 small pieces	9:46:00	9:47:00	-	-	-	-	70977	70981	-	Data obtained from facility.			
3/15/2002	nuts & bolts	9:49:00	9:50:00	-	-	-	-	70981	70984	-	Data obtained from facility.			
3/15/2002	nuts & bolts	10:01:00	10:03:00	-	-	-	-	70984	70990	-	Data obtained from facility.			
3/15/2002	2 small plates	10:05:00	10:06:00	-	-	-	-	70990	70997	-	Data obtained from facility.			
3/15/2002	2 brackets	10:09:00	10:11:00	-	-	-	-	70997	71007	-	Data obtained from facility.			
3/15/2002	2 light buckets	10:40:00	10:45:00	74.2C	7	0	120	71007	71061	-	Combination of District and facility data. Front and back doors open. Fan is running.	39.00	1.257	46.41
3/15/2002	20 small pieces	11:20:00	11:23:00	-	-	-	-	71061	71087	-	Data obtained from facility.			
3/15/2002	2 plates	11:30:00	11:32:00	-	-	-	-	71087	71092	-	Data obtained from facility.			

3/15/2002	See Plating log	11:40:00	-	-	3.8	0	114	71087	-	See plating log. Front and back doors open. Fan is running.			
3/15/2002	bumper	11:54:00	11:58:00	-	-	-	-	71092	71130	Data obtained from facility.			
3/15/2002	emblem	12:20:00	12:21:00	-	-	-	-	71130	71132	Data obtained from facility.			
3/15/2002	See Plating log	12:40:00	-	74.3C	3.7	0	118	71130	-	See plating log. Front and back doors open. Fan is running.	39.00	1.260	46.52
3/15/2002	small piece	13:28:00	13:29:00	-	-	-	-	71132	71133	Data obtained from facility.			
3/15/2002	See Plating log	13:40:00	-	-	3.7	0	122	71133	-	See plating log. Front and back doors open. Fan is running.			
3/15/2002	grille surround	13:50:00	13:53:00	-	-	-	-	71133	71143	Data obtained from facility.			
3/15/2002	grille	14:04:00	14:09:00	-	-	-	-	71143	71204	Data obtained from facility.			
3/15/2002	10 door handles	14:20:00	14:24:00	-	-	-	-	71204	71211	Data obtained from facility.			
3/15/2002	small pieces	14:27:00	14:29:00	-	-	-	-	71211	71219	Data obtained from facility.			
3/15/2002	bumper	14:35:00	14:39:00	-	-	-	-	71219	71246	Data obtained from facility.			
3/15/2002	See Plating log	14:40:00	-	74.4C	7.5	200	122	71216	-	See plating log. Front and back doors open. Fan is running.	40.00	1.260	45.36
3/15/2002	2 lights	14:24:00	14:48:00	-	-	-	-	71246	71256	Data obtained from facility.			
3/15/2002	4 knock offs & horn	15:05:00	15:10:00	-	-	-	-	71256	71287	Data obtained from facility.			
3/15/2002	none	15:40:00	-	74.5C	0.4	0	114	71287	-	No plating. Front and back doors open. Fan off. End of day.	39.50	1.256	45.79
3/18/2002	none	8:40:00	-	031802.1C	0	0	68	71287	-	No plating. Front and back doors open. Fan off.	44.00	1.262	41.30
3/18/2002	none	9:40:00	-	-	0	0	-	71287	-	No plating. Front and back doors open. Fan off.			
3/18/2002	none	10:40:00	-	-	0	0	-	71287	-	No plating. Front and back doors open. Fan off.			
3/18/2002	none	11:40:00	-	-	0	0	-	71287	-	No plating. Front and back doors open. Back fan spinning.			
3/18/2002	none	12:40:00	-	-	0	0	-	71287	-	No plating. Front and back doors open. Back fan not spinning.			
3/18/2002	none	13:40:00	-	-	0	0	68	71287	-	No plating. Front door open. Back door (gate) closed. Fan off.			
3/18/2002	none	14:40:00	-	031802.2C	0	0	68	71287	-	No plating. Front door open. Back door (gate) closed. Fan off.	41.00	1.251	43.94
3/19/2002	none	8:10:00	-	78.1C	0.2	0	60	71287	-	No plating. Front and back doors open. Fan off.	40.50	1.265	44.98
3/19/2002	none	9:10:00	-	-	0.2	0	60	71287	-	No plating. Front and back doors open. Fan off.			
3/19/2002	none	10:05:00	-	-	0.2	0	60	71287	-	No plating. Front and back doors open. Fan off.			
3/19/2002	none	11:00:00	-	031902.1P	-	-	-	-	-	Surface tension measured on site by District using District stalagmometer.	42.83	1.200	40.34
3/19/2002	none	11:05:00	-	-	0.2	0	62	71287	-	No plating. Front and back doors open. Fan off.			
3/19/2002	none	12:05:00	-	-	0.2	0	62	71287	-	No plating. Front and back doors open. Fan off.			
3/19/2002	none	13:05:00	-	-	0.2	0	64	71287	-	No plating. Front and back doors open. Fan off.			
3/19/2002	none	14:05:00	-	-	0.2	0	64	71287	-	No plating. Front and back doors open. Fan off.			
3/19/2002	none	15:00:00	-	78.2C	0.2	0	64	71287	-	No plating. Front and back doors open. Fan off.	39.50	1.265	46.12
3/20/2002	none	8:10:00	-	032002.1C	0	0	60	71287	-	No plating. Front door open. Fan on.	40.00	1.264	45.50
3/20/2002	none	9:10:00	-	-	0	0	60	71287	-	No plating. Front door open. Fan on.			
3/20/2002	none	10:10:00	-	-	0	0	60	71287	-	No plating. Front door open. Fan on.			

3/20/2002	none	11:10:00	-	-	0	0	60	71287	-	No plating. Front door open. Fan on.			
3/20/2002	none	12:10:00	-	-	0	0	60	71287	-	No plating. Front door open. Fan on.			
3/20/2002	none	13:10:00	-	-	0	0	60	71287	-	No plating. Front and back doors open. Fan on.			
3/20/2002	none	14:10:00	-	-	0	0	60	71287	-	No plating. Front and back doors open. Fan on.			
3/20/2002	none	15:00:00	-	032002.2C	0	0	60	71287	-	No plating. Front and back doors open. Fan on. Last sample.	31.67	1.191	54.15
3/21/2002	none	7:40:00	-	80.1C	0.2	0	92	71287	-	No plating. Fan on. Doors open.	33.75	1.202	51.29
3/21/2002	none	8:35:00	-	-	0.2	0	92	71287	-	No plating. Fan on. Doors open.			
3/21/2002	Chrome Foam addition	9:50:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			33.80
3/21/2002	none	9:35:00	-	-	0.2	0	94	71287	-	No plating. Fan on. Doors open.			
3/21/2002	4 tubes	10:07:00	10:10:00	-	-	-	-	71287	71294	Data obtained from facility.			
3/21/2002	4 tubes	10:17:00	10:20:00	-	-	-	-	71394	71303	Data obtained from facility.			
3/21/2002	4 tubes	10:21:00	10:24:00	-	-	-	-	71303	71312	Data obtained from facility.			
3/21/2002	4 tubes	10:25:00	10:28:00	-	-	-	-	71312	71323	Data obtained from facility.			
3/21/2002	4 tubes	10:30:00	10:32:00	-	-	-	-	71323	71328	Data obtained from facility.			
3/21/2002	4 shock tubs (x 3)	10:35:00	-	80.2C	7.4	250	95	71304	-	Fan on. Doors open.	45.75	1.200	37.77
3/21/2002	2 rods	10:35:00	10:37:00	-	-	-	-	71328	71332	Data obtained from facility.			
3/21/2002	4 tubes	10:38:00	10:41:00	-	-	-	-	71332	71344	Data obtained from facility.			
3/21/2002	4 tubes	11:08:00	11:11:00	-	-	-	-	71344	71350	Data obtained from facility.			
3/21/2002	griddle + 1 hub cap	11:26:00	11:30:00	-	-	-	-	71350	71379	Data obtained from facility.			
3/21/2002	2 rods (4 tubes x 2)	11:35:00	-	-	3.6	0	130	71350	-	Plating. Fan on. Doors open. Tank uncovered.			
3/21/2002	4 pieces	11:40:00	11:43:00	-	-	-	-	71379	71392	Data obtained from facility.			
3/21/2002	20 strings of small screws	12:06:00	12:08:00	-	-	-	-	71392	71401	Data obtained from facility.			
3/21/2002	2 rods	12:12:00	12:14:00	-	-	-	-	71401	71406	Data obtained from facility.			
3/21/2002	none	12:35:00	-	80.3C	6.2	0	124	71406	-	Plating. Fan on. Doors open. Tank uncovered.	40.00	1.246	44.86
3/21/2002	none	13:35:00	-	-	0.2	0	124	71406	-	No plating. Fan on. Doors open. Tank covered.			
3/21/2002	none	14:35:00	-	80.4C	0.2	0	-	71406	-	No plating. Fan on. Doors open. Tank covered.	39.00	1.240	45.78
3/21/2002	-	15:30:00	-	-	-	-	-	-	-	Max Afcarl left the shop at 15:30. The doors were closed and the fan was off.			
3/21/2002	-	15:50:00	-	-	-	-	-	-	-	A worker leaves the building and closed the door behind him.			
3/21/2002	-	16:00:00	-	-	-	-	-	-	-	Same worker above returns with a box and enters the building.			
3/22/2002	none	8:00:00	-	81.1C	0.2	0	114	71406	-	No plating. Fan on.	40.00	1.247	44.89
3/22/2002	Chrome Foam addition	8:40:00	-	-	-	-	-	-	-	Added 8 ounces of Chrome Foam. Surface tension measured by facility. Data obtained from facility.			36.20
3/22/2002	none	8:50:00	-	-	0.2	0	116	71406	-	No plating. Fan on. Tank uncovered.			
3/22/2002	screws	9:54:00	9:55:00	-	-	-	-	71407	71410	Data obtained from facility.			
3/22/2002	none	9:55:00	-	81.2C	3.5	0	122	71410	-	Plating. See plating log. Fan on.	41.00	1.250	43.90
3/22/2002	screws	9:56:00	-	-	-	-	-	71410	71415	Data obtained from facility.			

3/22/2002	5 bumper guards	10:50:00	10:53:00	-	-	-	-	71415	71435	Data obtained from facility.			
3/22/2002	plating	10:55:00	-	-	5	0	120	71415	-	Plating. Tank uncovered. See plating log. Fan on.			
3/22/2002	stove top	11:45:00	11:54:00	-	-	-	-	71435	71471	Data obtained from facility.			
3/22/2002	tray	11:55:00	11:58:00	-	-	-	-	71471	71493	Data obtained from facility.			
3/22/2002	stove top	11:58:00	12:02:00	-	-	-	-	71493	71520	Data obtained from facility.			
3/22/2002	nuts and bolts	12:05:00	12:07:00	-	-	-	-	71520	71530	Data obtained from facility.			
3/22/2002	plating	12:07:00	-	81.3C	1.4	550	122	71493	-	Plating. Tank uncovered. See plating log. Fan on.	40.00	1.252	45.07
3/22/2002	nuts and bolts	12:08:00	12:10:00	-	-	-	-	71530	71535	Data obtained from facility.			
3/22/2002	shift level	12:13:00	12:15:00	-	-	-	-	71535	71542	Data obtained from facility.			
3/22/2002	bumper tip	12:20:00	12:23:00	-	-	-	-	71542	71548	Data obtained from facility.			
3/22/2002	2 hinges	12:41:00	12:43:00	-	-	-	-	71548	71550	Data obtained from facility.			
3/22/2002	screws	12:45:00	12:47	-	-	-	-	71550	71552	Data obtained from facility.			
3/22/2002	plating	13:07:00	-	-	3.6	0	124	71552	-	Plating. Tank uncovered. See plating log. Fan on.			
3/22/2002	bumper tip	13:30:00	13:33:00	-	-	-	-	71552	71561	Data obtained from facility.			
3/22/2002	bumper tip	13:34:00	13:36:00	-	-	-	-	71561	71570	Data obtained from facility.			
3/22/2002	4 brackets	13:40:00	13:42:00	-	-	-	-	71570	71574	Data obtained from facility.			
3/22/2002	bumper tip	13:55:00	13:58:00	-	-	-	-	71574	71581	Data obtained from facility.			
3/22/2002	plating	14:08:00	-	81.4C	3.7	0	120	71581	-	Plating. Tank uncovered. See plating log. Fan on.	39.00	1.258	46.45
3/22/2002	bumper	14:06:00	14:08:00	-	-	-	-	71581	71596	Data obtained from facility.			
3/22/2002	reflector	14:12:00	14:15:00	-	-	-	-	71596	71600	Data obtained from facility.			
3/22/2002	2 vent grille	14:18:00	14:20:00	-	-	-	-	71600	71635	Data obtained from facility.			
3/22/2002	2 seat rail	14:27:00	14:29:00	-	-	-	-	71635	71637	Data obtained from facility.			
3/22/2002	small parts	14:42:00	14:45:00	-	-	-	-	71637	71643	Data obtained from facility.			
3/22/2002	none	15:15:00	-	81.5C	0.4	0	118	71643	-	Plating. Tank covered. Fan on. End of business.	39.00	1.255	46.34
3/22/2002	many misc parts	14:46:00	14:58:00	-	-	-	-	71643	71750	Data obtained from facility.			
3/25/2002	none	7:50:00	-	032502.1C	0.2	0	64	71750	-	No plating. Fan on. Front door open.	42.00	1.260	43.20
3/25/2002	none	8:50:00	-	-	0.2	0	-	71750	-	No plating. Fan on. Front and back doors open.			
3/25/2002	none	9:50:00	-	-	0.2	0	-	71750	-	No plating. Fan on. Front and back doors open.			
3/25/2002	none	10:50:00	-	-	0.2	0	-	71750	-	No plating. Fan on. Front and back doors open.			
3/25/2002	none	11:50:00	-	-	0.2	0	-	71750	-	No plating. Fan on. Front and back doors open.			
3/25/2002	none	12:50:00	-	-	0.2	0	-	71750	-	No plating. Fan on. Front and back doors open.			
3/25/2002	none	13:50:00	-	-	0.2	0	-	71750	-	No plating. Fan on. Front and back doors open.			
3/25/2002	none	14:25:00	-	032502.2C	0.2	0	66	71750	-	No plating. Fan on. Front and back doors open. Last sample.	40.50	1.257	44.69
3/26/2002	none	8:55:00	-	85.1C	off	off	off	71750	-	No plating.	40.00	1.259	45.32
3/26/2002	none	9:55:00	-	-	off	off	off	71750	-	No plating.			

3/26/2002	none	10:55:00	-	-	off	off	off	71750	-	No plating.			
3/26/2002	none	11:55:00	-	-	off	off	off	71750	-	No plating.			
3/26/2002	none	12:55:00	-	-	off	off	off	71750	-	No plating.			
3/26/2002	none	13:55:00	-	-	off	off	off	71750	-	No plating.			
3/26/2002	none	14:50:00	-	85.2C	off	off	off	71750	-	No plating.	40.00	1.259	45.32
3/27/2002	none	8:55:00	-	032702.1C	off	off	60	71750	-	No plating. Fan on. Doors open	40.50	1.253	44.55
3/27/2002	none	9:55:00	-	-	off	off	off	71750	-	No plating. Fan on. Doors open			
3/27/2002	none	10:55:00	-	-	off	off	off	71750	-	No plating. Fan on. Doors open			
3/27/2002	none	11:55:00	-	-	off	off	off	71750	-	No plating. Fan on. Doors open			
3/27/2002	none	12:55:00	-	-	off	off	60	71750	-	No plating. Fan on. Doors open			
3/27/2002	none	13:55:00	-	-	off	off	off	71750	-	No plating. Fan off. Doors open			
3/27/2002	none	14:50:00	-	032702.2C	off	off	off	71750	-	No plating. Fan off. Doors open	40.00	1.260	45.36
3/28/2002	none	8:15:00	-	032802.1C	0	0	60	71750	-	No plating. Fan on. Doors open.	39.00	1.266	46.74
3/28/2002	none	15:00:00	-	032802.2C	0	0	62	71750	-	No plating. Fan on. Doors open. Last sample.	38.00	1.261	47.79
3/29/2002	noe	8:00:00	-	032902.1C	off	off	60	71750	-	No plating. Fan on. Front door open. No plating and no data sheets for March 29 and April 1.	38.00	1.259	47.71
4/2/2002	none	-	-	-	-	-	-	71750	-	No plating. Fan on. Door open. No plating and no data sheets for March 29 and April 1.			
4/4/2002	none	-	-	-	off	off	off	71750	-	Chrome plating sent out to Lemon Grove Plating. Tanks newly painted. Fan off. Doors ... open. Exterior front of building freshly painted.			
4/5/2002	none	10:10:00	-	040502.1C	0	0	62	71750	-	Doors open. Fan on. Bay door open. Other tanks (caustic corrosive tank and nickel ... rinse tank) are being used.	38.50	1.253	46.87
4/8/2002	none	10:34:00	-	-	off	off	off	71750	-	No plating. Tank covered. Door open. Fan off.			
4/9/2002	none	-	-	-	off	off	62	71750	-	No plating. Front and back doors open. Fan off. Max not there - could not find his data sheet.			
4/10/2002	none	13:10:00	-	-	0	0	64	71750	-	No plating. Front and back door open. Fan off. No data sheets since did not plate ... during 4/8/02, 4/9/02, 4/10/02.			
4/11/2002	none	12:48:00	-	-	off	off	off	71750	-	No plating. Doors open. Fan on. No facility log for yesterday (no work).			
4/12/2002	none	9:00:00	-	041202.1C	off	off	62	71750	-	No plating. Fan on. Doors open.	38.00	1.253	47.48

4/15/2002	none	12:00:00	-	-	0	0	62	71750	-	No plating. Front and bay door open. Fan off.			
4/16/2002	none	7:30:00	-	-	off	off	59	71750	-	No chrome plating. No nickel plating. Doors open. Fan off. Sweeping floor outside buffing and grinding room.			
4/17/2002	none	8:00:00	-	-	off	off	58	71750	-	No chrome plating. Fan off. Doors open. Changing fluorescent light tables.			
4/18/2002	none	9:52:00	-	-	0	0	62	71750	-	No plating. Front, back and bay doors open. Fan on.			
4/19/2002	none	14:06:00	-	109.1C	0	0	62	71750	-	No plating. Fan off. Front, bay and back doors open. Nickel plating. Please see data sheets.	38.50	1.255	46.94
4/22/2002	none	14:28:00	-	-	off	off	off	71750	-	No plating. Fan off. Door open. Saturday 20th and Sunday 21st - no activity recorded. Boxing up finished products only.			
4/23/2002	none	13:55:00	-	-	-	-	64	71750	-	Fan off. Front door open. Bay door open. Back door open. Back fan turning counter clockwise.			
4/24/2002	none	13:36:00	-	-	-	-	62	71750	-	No plating. Fan off. Front and back doors open.			
4/25/2002	none	13:38:00	-	-	-	-	64	71750	-	Fan on. Front door open. Bay and back doors open. Nickel plating today.			
4/26/2002	none	11:45:00	-	042602.1C	-	-	62	71750	-	Front and back doors open. Fan on. Copper and nickel tank plating. Max is not recording	38.00	1.263	47.86
4/26/2002										data because he is not chrome plating.			
4/29/2002	none	-	-	-	-	-	65	71750	-	Fan off. Front and rear doors open. No plating. Max was loading parts in his car to take			
4/29/2002										them to another chrome plater to be plated.			
4/30/2002	none	10:45:00	-	-	0	0	62	71750	-	Fan off. Bay door closed. Front door and back doors open. No nickel plating today. Top is			
4/30/2002										open on chrome tank. Max opened (uncovered) tank to do inspection. He will fill up chrome			
4/30/2002										tank using chrome and water mixture from the tank adjacent to chrome tank (one of the rinse			
4/30/2002										tanks). He will do this by using a bucket to scoop material from the rinse tank to the chrome			
4/30/2002										tank. This will take place on 5-1-02.			
5/1/2002	none	-	-	050102.1C	off	off	65	71750	-	No plating. Front door open. Large rear door closed. S wall rear door open. Fan off. Shed			
5/1/2002										in back was broken into last night and circuit box was also broken into and the power was shut off.			
5/2/2002	none	-	-	-	off	off	off	71750	-	Back door open. Fan off. Door open. Nickel plating in progress. Nickel tank uncovered. Cr plating			
5/2/2002										sent to Lemon Grove Plating.			

5/3/2002	none	14:40:00	-	123.1C	0	0	64	71750	-	No nickel plating. Fan off. Bay door closed. Back door open. Front door open. Finish	33.00	1.175	51.27
5/3/2002										plating early. Please see data sheets.			
5/6/2002	none	-	-	-	off	off	64	71750	-	Fan off. Front and rear doors open. No plating.			
5/7/2002	none	9:35:00	-	-	off	off	off	71750	-	No plating activity of any kind at this time and no activity since 5-3-02. Front door open. Fan off.			
5/8/2002	none	9:07:00	-	-	0	0	62	71750	-	Fans off. Front door open. Bay door half open. No plating.			
5/9/2002	none	13:30:00	-	-	-	-	-	71750	-	Nickel plating in progress. No plating (until today) since 5-3-02. "Couple of weeks ago" added			
5/9/2002										wooden legs to boardwalk to increase its height. In front of H2SO4 tank. Stated only "new"			
5/9/2002										wood was cut by saw and that the old, saturated lumber was not compromised. No evidence			
5/9/2002										of sawdust observed.			
5/10/2002	none	11:00:00	-	130.1C	off	off	off	71750	-	Nickel plating in progress. See log. Dor partially open. Fan on.	34.00	1.205	51.04
5/13/2002	none	11:45:00	-	-	-	-	66	71750	-	No nickel plating. Front door open. Fan on. Bay and back doors open. Please see data			
5/13/2002										sheets. Max filled in bricks with cement this morning. He will paint after the cement dries.			
5/14/2002	none	8:51:00	-	-	off	off	off	71750	-	No plating at this time. No plating conducted yesterday. Max Afcarl reports that yesterday he filled holes (in the newly			
5/14/2002										laid blocks that form containment) with concrete mix. Is currently preparing to paint the blocks with water based 2 part			
5/14/2002										epoxy made by Litex.			
5/14/2002										Litex 100% 2 part epoxy floor #L8091 coating. Pigment additives include lamp black, yellow oxide, red oxide. From Home			
5/14/2002										Depot 760-943-9600, 5-12-2002 @ 1443-RH-0660. VOC 209 g/l as applied. Currently preparing waste cyanide for disposal			
5/14/2002										(Cu tank emptied 5-8-02).			
5/15/2002	none	9:20:00	-	-	off	off	63	71750	-	No plating. No plating previous day. Fan off. Front and rear doors open.			
5/16/2002	none	13:50:00	-	-	0	0	64	71750	-	Fan off. Front and back door open. Bay door closed.			
5/17/2002	none	-	-	-	off	off	62	71750	-	Fan off. Front and back door open.	34.50	1.216	50.75
										Wet sweeping - no dust claimed by Max.			
5/20/2002	none	-	-	-	off	off	63	71750	-	No Plating. See Data Sheets.			
5/21/2002	none	-	-	-	off	off	63	71750	-	No Plating. See Data Sheets.			

5/23/2002	none	-	-	-	off	off	-	71750	-	No Plating. See Data Sheets.			
5/24/2002	none	-	-	-	off	off	-	71750	-	No Plating. See Data Sheets.	35.00	1.217	50.07
5/28/2002	none	-	-	-	off	off	-	71750	-	No Plating. Stripping only. Fans off, doors open.			
5/29/2002	none	-	-	-	off	off	-	71750	-	No Plating. Stripping only. Fan on, doors open.			
5/30/2002	none	-	-	-	off	off	-	71750	-	No Plating. Fan off, doors open.			
5/31/2002	none	-	-	-	off	off	-	71750	-	No Plating. Stripping only. Fan off, doors open.			
6/6/2002	none	-	-	-	off	off	-	71750	-	Max wants to heat chrome tank to reduce volume of solution. Wants APCD approved first.			
6/11/2002	none	10:20:00	-	-	off	off	-	71750	-	No Plating. Stripping only. Fan off, doors open.			
6/21/2002	none	9:12:00	-	-	off	off	-	71750	-	No Plating. Stripping only. Fan off, doors open. Chrome tank partially covered. Rinse tank (1st) uncovered.			
6/26/2002	none	-	-	-	off	off	Room	71750	-	No Cr plating. Cu and Ni plating today. Cover off Cr tank to evaporate water. Not heated. Cr tank level near top of tank. Rinse tank #1 also near top.			
7/5/2002	none	-	-	-	-	-	-	-	-	Facility closed.			
7/12/2002	none	8:06:00	-	-	off	off	off	71750	-	No Plating. Stripping only. Fan off, doors open.			
7/19/2002	none	-	-	-	off	off	off	71750	-	No Plating. Chrome tank level approximately 4 inches from top. #1 rinse table 8 inches from top. #2, #3 rinse tables nearly empty.			
7/25/2002	none	-	-	-	off	off	off	71750	-	No plating.			
8/1/2002	none	-	-	-	off	off	off	71750	-	No plating.			
8/8/2002	none	-	-	-	off	off	off	71750	-	No plating.			
8/19/2002	none	-	-	-	off	off	off	71750	-	No plating.			
8/30/2002	none	-	-	-	off	off	off	71750	-	No plating.			

9/5/2002	none	-	-	-	off	off	off	71750		No plating.			
9/20/2002	none	-	-	-	off	off	off	71750		No plating.			
9/27/2002	none	-	-	-	off	off	off	71750		No plating.			
10/4/2002	none	-	-	-	off	off	off	71750		No plating.			
10/11/2002	none	-	-	-	off	off	off	71750		No plating.			

Material Additions

Date	Material Name	Time Added	Amount Added	Comments
2/6/2002	Chrome Foam	11:00	8 oz.	Data obtained from facility.
2/7/2002	Chrome Foam	9:15	8 oz.	Data obtained from facility.
2/8/2002	Chrome Foam	9:15	8 oz.	Data obtained from facility.
2/8/2002	DI water	3:20	2"	Data obtained from facility.
2/13/2002	Chrome Foam	10:40	8 oz.	Data obtained from facility.
2/14/2002	Chrome Foam	10:50	8 oz.	Data obtained from facility.
2/15/2002	Chrome Foam	12:15	8 oz.	Data obtained from facility.
2/21/2002	Chrome Foam	10:32	8 oz.	Data obtained from facility.
2/22/2002	Chrome Foam	11:05	8 oz.	Data obtained from facility.
2/27/2002	Chrome Foam	8:25	8 oz.	Data obtained from facility.
2/27/2002	Air agitation	8:15	2 minutes	Data obtained from facility.
2/28/2002	Chrome Foam	10:38	8 oz.	Data obtained from facility.
3/1/2002	Chrome Foam	10:02	8 oz.	Data obtained from facility.
3/5/2002	Rinse water	14:00	2"	Data obtained from facility.
3/6/2002	Chrome Foam	9:15	8 oz.	Data obtained from facility.
3/6/2002	Air agitation	9:23	30 seconds	Data obtained from facility. Note: air agitation conducted after adding Chrome Foam for District surface tension measurements.
3/7/2002	Chrome Foam	9:05	8 oz.	Data obtained from facility.
3/14/2002	Chrome Foam	11:35	8 oz.	Data obtained from facility.
3/15/2002	Chrome Foam	9:00	8 oz.	Data obtained from facility.
3/21/2002	Chrome Foam	9:50	8 oz.	Data obtained from facility.
3/22/2002	Chrome Foam	8:40	8 oz.	Data obtained from facility.

	Analyzed by		Analysis date		Jar used
	# of drops	specific gravity	# of drops	specific gravity	
2/6/02 9:00	District	District	2/7/2002	2/7/2002	50 ml glass vial w/ Teflon lined lids.
2/6/02 9:55	District	District	2/7/2002	2/7/2002	50 ml glass vial w/ Teflon lined lids.
2/6/02 10:40	District	District	2/7/2002	2/7/2002	50 ml glass vial w/ Teflon lined lids.
2/6/02 11:48	District	District	2/7/2002	2/7/2002	50 ml glass vial w/ Teflon lined lids.
2/6/02 13:15	District	District	2/7/2002	2/7/2002	50 ml glass vial w/ Teflon lined lids.
2/6/02 14:00	District	District	2/7/2002	2/7/2002	50 ml glass vial w/ Teflon lined lids.
2/6/02 14:45	District	District	2/7/2002	2/7/2002	50 ml glass vial w/ Teflon lined lids.
2/7/02 8:05	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.
2/7/02 9:05	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.
2/7/02 10:05	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.
2/7/02 11:05	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.
2/7/02 11:50	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.

2/7/02 13:05	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.
2/7/02 14:05	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.
2/7/02 15:04	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.
2/7/02 16:00	District	District	2/12/2002	2/12/2002	50 ml glass vial w/ Teflon lined lids.
2/8/02 8:50	District	District	2/14/2002	2/14/2002	50 ml glass vial w/ Teflon lined lids.
2/8/02 9:50	District	District	2/14/2002	2/14/2002	50 ml glass vial w/ Teflon lined lids.
2/8/02 11:05	District	District	2/14/2002	2/14/2002	50 ml glass vial w/ Teflon lined lids.
2/8/02 12:00	District	District	2/14/2002	2/14/2002	50 ml glass vial w/ Teflon lined lids.
2/8/02 13:05	District	District	2/14/2002	2/14/2002	50 ml glass vial w/ Teflon lined lids.
2/8/02 14:20	District	District	2/14/2002	2/14/2002	50 ml glass vial w/ Teflon lined lids.

2/8/02 16:40	District	District	2/14/2002	2/14/2002	50 ml glass vial w/ Teflon lined lids.
2/11/02 8:10	District	District	2/15/2002	2/15/2002	50 ml glass vial w/ Teflon lined lids.
2/11/02 14:56	District	District	2/15/2002	2/15/2002	50 ml glass vial w/ Teflon lined lids.
2/12/02 7:45	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/12/02 15:15	District	District	2/15/2002	2/15/2002	120 ml glass jar w/ Teflon lined lid
2/13/02 7:55	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
1/0/00 0:00					
2/13/02 11:55	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/13/02 12:55	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/13/02 13:55	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/13/02 14:50	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/13/02 15:45	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/14/02 7:20	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid

1/0/00 0:00					
2/14/02 12:05	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/14/02 13:05	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/14/02 14:05	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/14/02 15:05	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/14/02 15:45	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/15/02 7:10	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
1/0/00 0:00					

2/15/02 13:10	Lab	Lab	3/5/2002	3/5/2002	120 ml glass jar w/ Teflon lined lid
2/15/02 15:20	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/19/02 7:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/19/02 14:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/20/02 7:45	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/20/02 14:45	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/21/02 7:50	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/21/02 10:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/21/02 11:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/21/02 13:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/21/02 14:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle

2/21/02 15:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/22/02 8:10	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/22/02 12:10	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
1/0/00 0:00					
2/22/02 13:10	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/22/02 14:10	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/22/02 15:10	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/25/02 7:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/25/02 15:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/26/02 7:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/26/02 15:00	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle

2/27/02 8:40	Lab	Lab	3/5/2002	3/5/2002	50 ml glass vial w/ Teflon lined lids.
2/27/02 9:40	Lab	Lab	3/5/2002	3/5/2002	50 ml glass vial w/ Teflon lined lids.
2/27/02 10:40	Lab	Lab	3/5/2002	3/5/2002	50 ml glass vial w/ Teflon lined lids.
2/27/02 11:40	Lab	Lab	3/5/2002	3/5/2002	50 ml glass vial w/ Teflon lined lids.
2/27/02 12:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/27/02 13:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/27/02 14:40	Lab	Lab	3/5/2002	3/5/2002	125 ml HDPE bottle
2/28/02 7:45	Lab	Lab	3/8/2002	3/8/2002	125 ml HDPE bottle
2/28/02 10:40	Lab	Lab	3/8/2002	3/8/2002	125 ml HDPE bottle
2/28/02 11:40	Lab	Lab	3/8/2002	3/8/2002	125 ml HDPE bottle

2/28/02 12:40	Lab	Lab	3/8/2002	3/8/2002	125 ml HDPE bottle
2/28/02 13:40	Lab	Lab	3/8/2002	3/8/2002	125 ml HDPE bottle
2/28/02 14:40	Lab	Lab	3/8/2002	3/8/2002	125 ml HDPE bottle
3/1/02 7:40	Lab	Lab	3/8/2002	3/8/2002	50 ml glass vial w/ Teflon lined lids.
3/1/02 10:40	Lab	Lab	3/8/2002	3/8/2002	50 ml glass vial w/ Teflon lined lids.
3/1/02 11:40	Lab	Lab	3/8/2002	3/8/2002	50 ml glass vial w/ Teflon lined lids.
3/1/02 12:45	Lab	Lab	3/8/2002	3/8/2002	50 ml glass vial w/ Teflon lined lids.

3/1/02 13:45	Lab	Lab	3/8/2002	3/8/2002	120 ml glass jar w/ Teflon lined lid
3/1/02 14:40	Lab	Lab	3/8/2002	3/8/2002	120 ml glass jar w/ Teflon lined lid
3/1/02 15:30	Lab	Lab	3/8/2002	3/8/2002	120 ml glass jar w/ Teflon lined lid
3/4/02 7:40	Lab	Lab	3/8/2002	3/8/2002	120 ml glass jar w/ Teflon lined lid
3/4/02 15:30	Lab	Lab	3/8/2002	3/8/2002	120 ml glass jar w/ Teflon lined lid
3/5/02 7:55	Lab	Lab	3/11/2002	3/11/2002	120 ml glass jar w/ Teflon lined lid
3/5/02 14:55	Lab	Lab	3/11/2002	3/11/2002	120 ml glass jar w/ Teflon lined lid
3/6/02 7:40	Lab	Lab	3/12/2002	3/12/2002	120 ml glass jar w/ Teflon lined lid
3/6/02 8:40	District	District	3/6/2002	3/6/2002	125 ml HDPE bottle
3/6/02 8:40	District	District	3/6/2002	3/6/2002	125 ml HDPE bottle

3/8/02 10:40	Lab	Lab	3/12/2002	3/12/2002	120 ml glass jar w/ Teflon lined lid
3/8/02 15:10	Lab	Lab	3/12/2002	3/12/2002	120 ml glass jar w/ Teflon lined lid
3/11/02 8:40	Lab	Lab	3/13/2002	3/13/2002	120 ml glass jar w/ Teflon lined lid
3/11/02 14:40	Lab	Lab	3/13/2002	3/13/2002	120 ml glass jar w/ Teflon lined lid
3/12/02 7:40	Lab	Lab	3/18/2002	3/18/2002	120 ml glass jar w/ Teflon lined lid
3/12/02 14:40	Lab	Lab	3/18/2002	3/18/2002	120 ml glass jar w/ Teflon lined lid
3/13/02 7:40	Lab	Lab	3/23/2002	3/23/2002	120 ml glass jar w/ Teflon lined lid
3/13/02 14:40	Lab	Lab	3/23/2002	3/23/2002	125 ml HDPE bottle
3/14/02 7:50	Lab	Lab	3/25/2002	3/25/2002	125 ml HDPE bottle

3/14/02 11:50	Lab	Lab	3/25/2002	3/25/2002	125 ml HDPE bottle
3/14/02 12:50	Lab	Lab	3/25/2002	3/25/2002	125 ml HDPE bottle
3/14/02 13:50	Lab	Lab	3/25/2002	3/25/2002	125 ml HDPE bottle
3/14/02 14:50	Lab	Lab	3/25/2002	3/25/2002	125 ml HDPE bottle
3/14/02 15:50	Lab	Lab	3/25/2002	3/25/2002	125 ml HDPE bottle
3/15/02 7:40	Lab	Lab	3/27/2002	3/27/2002	120 ml glass jar w/ Teflon lined lid
3/15/02 10:40	Lab	Lab	3/27/2002	3/27/2002	120 ml glass jar w/ Teflon lined lid

3/15/02 12:40	Lab	Lab	3/27/2002	3/27/2002	120 ml glass jar w/ Teflon lined lid
3/15/02 14:40	Lab	Lab	3/27/2002	3/27/2002	120 ml glass jar w/ Teflon lined lid
3/15/02 15:40	Lab	Lab	3/27/2002	3/27/2002	120 ml glass jar w/ Teflon lined lid
3/18/02 8:40	Lab	Lab	3/21/2002	3/21/2002	
3/18/02 14:40	Lab	Lab	3/21/2002	3/21/2002	
3/19/02 8:10	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/19/02 11:00	District	District	3/19/2002	3/19/2002	125 ml HDPE bottle
3/19/02 15:00	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/20/02 8:10	Lab	Lab	3/27/002	3/27/002	120 ml glass jar w/ Teflon lined lid

3/20/02 15:00	Lab	Lab	3/27/002	3/27/002	120 ml glass jar w/ Teflon lined lid
3/21/02 7:40	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
1/0/00 0:00					
3/21/02 10:35	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/21/02 12:35	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/21/02 14:35	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/22/02 8:00	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/22/02 9:55	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle

3/22/02 12:07	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/22/02 14:08	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/22/02 15:15	Lab	Lab	3/27/002	3/27/002	125 ml HDPE bottle
3/25/02 7:50	Lab	Lab	3/29/2002	3/29/2002	125 ml HDPE bottle
3/25/02 14:25	Lab	Lab	3/29/2002	3/29/2002	125 ml HDPE bottle
3/26/02 8:55	Lab	Lab	3/29/2002	3/29/2002	125 ml HDPE bottle

Average	Std Dev	Median	Maximum	Minimum
43.30	5.95	45.36	54.15	23.80