

GW - 028

**MONITORING
REPORT**

**2004 Annual GW
Report Vol. 1
(02/25/2005)**



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February 25, 2005

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CERTIFIED MAIL/RETURN RECEIPT

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RE: Navajo Refining's RY 2004 Annual Groundwater Monitoring Report

Dear Roger,

Enclosed, please find the 2004 Groundwater Monitoring Report for Navajo Refining in Artesia New Mexico. This report is submitted as per Navajo's Discharge Permit GW-028 dated April 17, 2003.

If there are any questions, please call me at 505-748-3311.

Respectfully,
NAVAJO REFINING COMPANY

Jefferson L. Byrd
Sr. Environmental Specialist

Encl.

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RY 2004 Ann Rpt

2004 ANNUAL GROUNDWATER REPORT

for

**NAVAJO REFINING COMPANY
ARTESIA, NEW MEXICO**



Prepared for:

**NEW MEXICO ENERGY, MINERAL and NATURAL RESOURCES
DEPARTMENT**

**OIL CONSERVATION DIVISION
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ATTACHMENT A – 2004 QUARTERLY RECOVERY WELL PRODUCTION REPORTS

ATTACHMENT B – 2004 ANNUAL AND SEMI-ANNUAL LABORTORY ANALYTICAL REPORTS

ATTACHMENT C – 2004 NCL/TEL LABORATORY ANALYTICAL REPORTS

ATTACHMENT D – 2004 EVAPORATION PONDS GROUNDWATER ANALYTICAL REPORTS

ATTACHMENT E – 2004 RO REJECT LABORATORY ANALYTICAL REPORTS

ATTACHMENT F – 2004 IRRIGATION WELL MONTHLY LABORATORY ANALYTICAL REPORTS

ANNUAL GROUND WATER REPORT
Navajo Refining Company
Artesia, New Mexico

1.0 SUMMARY

The amount of free-phase product on the groundwater is being effectively reduced. The recovery well product production in the plant has been drastically reduced. Two recovery wells on Bolten Road (RW-13 and RW-14) continue to catch and remove the hydrocarbon plume. No free-phase hydrocarbon has been detected in monitoring wells down gradient from the Bolten Road recovery wells since 2003. The dissolved phase plume appears to be mostly stable or diminishing.

2.0 RECOVERY WELLS

For 2004, Navajo pumped approximately 5,686,019 gallons of water out of our recovery wells and 181,765 gallons of product. The amount that came from each well is detailed in TABLE 2-1. Recovery wells 16, 17, and 18 are included on this table, even though they are currently only used for monitoring. The wells are monitored on a weekly basis and sampled annually. The results of this sampling are provided in Section 3.0. Navajo has a dedicated technician that operates these wells. All gauging and pumping information is compiled on weekly reports. These reports are then used to create Quarterly Reports, which are provided in ATTACHMENT A.

All water that is pumped out of these wells is sent to our waste water plant to be treated with other refinery waters. Product is taken to the API oil/water separator and is eventually introduced back into the refinery for reprocessing. In 2004, the amount of product recovered fell for the third year in a row. Also, due to the relatively thin layer of product on the surface of most of the wells, a portion of the product volume is also recovered water. In some cases this has been determined to be almost 90% via a "bucket test". This trend has occurred for the last few years. This is attributed to the fact that there is just not as much product left to be recovered and we are pumping more water to get that product. Most of the trenches (#'s 1, 2, 3, 4, 7, 9, 10, 11, 12, 16, 17, and 18) were shut down for most of 2004 or earlier because there was not any product in them to recover. Recovery wells 16, 17, and 18 have never had any product in them. The Bolton Road Trenches (RWs-11, 12, 13, and 14) that have water, are run continuously except for maintenance or end of line sampling to ensure no potential product plume gets past these trenches. Recovery trenches 11 and 12 rarely have any fluids in them. This is believed to be partly due to the fact that the shallow ground water bearing unit is not contiguous. We installed a monitoring well (MW-57) directly down gradient of #11 to ensure that a product plume is not getting under the trench. No product has developed in MW-57 at this time. We check all trenches once a week. If product is found, the pumps will be turned on. We also let the water pumps create a cone of depression to help any product to migrate to the pumps. In addition to the trenches, we check monitoring wells KWBS-4, 5, 6, and 8 for the presence of hydrocarbons. If any are found in these wells, it is removed via a submersible pump, or hand bailer. These wells also have a passive bailer placed into them to help remove the sheen layer which is currently present.

TABLE 2-1 RECOVERY WELL PRODUCTION

TABLE 2-1
RECOVERY WELL PRODUCTION

	Volume of Hydrocarbons Recovered (gallons)				Volume of Water Recovered (gallons)				Total 2004	
	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	Total 2004	1 st Qtr	2 nd Qtr	3 rd Qtr	4 th Qtr	
RW-1	109	0	0	0	109	207,600	13,200	16,800	14,400	252,000
RW-2	71	0	0	0	71	43,200	36,000	50,400	40,800	170,400
RW-3	0	0	0	0	0	0	0	0	0	0
RW-4	0	0	0	0	0	15,600	22,800	313,200	25,200	376,800
RW-5	276	271	360	0	907	0	0	0	0	0
RW-6	2,086	18,047	27,474	28,734	76,341	0	0	0	0	0
RW-7	0	0	0	0	0	0	0	0	0	0
RW-8	1,825	499	1,068	2,223	5,615	138,000	193,200	236,400	211,200	778,800
RW-9	0	0	0	0	0	0	0	0	0	0
RW-10	0	0	0	0	0	0	0	0	0	0
RW-11	0	0	0	0	0	0	0	0	0	0
RW-12	0	0	0	0	0	0	0	0	0	0
RW-13	5,782	6,184	10,084	3,077	25,127	144,000	72,000	96,600	79,800	392,400
RW-14	9,860	6,247	7,987	4,136	28,230	747,963	827,959	1,163,942	915,954	3,655,818
RW-15 ¹	28,696	14,854	1,783	32	45,365	0	0	0	0	0
RW-16	0	0	0	0	0	0	0	0	0	0
RW-17	0	0	0	0	0	0	0	0	0	0
RW-18	0	0	0	0	0	0	0	0	0	0
Chase ²	0	0	0	0	0	18,167	9,607	32,027		
TOTAL	48,705	46,102	48,756	38,202	181,765	1,296,363	1,183,326	1,886,949	1,319,381	5,686,019

¹ Formerly noted as "Toolpushers"

² Dewatering sump located at Chase's pecan farm east of Botkin Road operated as needed.

3.0 SEMI ANNUAL AND ANNUAL

TABLE 3-1 shows the constituents which had levels above the WQCC standards in the offsite wells. You will notice that the wells had concentrations of four metals above the WQCC standard. We have only been analyzing the wells for these constituents since the issue of our Discharge Permit GW-028 dated April 17, 2003. It is believed that these analytes are naturally occurring at these levels and are not a result of our contamination. This theory is supported by the fact that the levels are consistent between wells for two consecutive years. The laboratory analytical data sheets are provided in ATTACHMENT B.

Monitoring well MW-58, which is located down gradient from KWB-2R, as seen in FIGURE 3-1 or FIGURE 3-2, had the highest concentration of BTEX. A benzene concentration isopleth is provided on FIGURE 3-3. This is probably due to a slug of free-phase product which was noted in KWB-2R during 2002. The product was removed from KWB-2R while it was observed in the well. This well will be monitored regularly to ensure that product does not go undetected. If product was to develop in MW-57, steps will be taken to remove it.

A graph depicting benzene, ethyl benzene, and xylenes is shown in FIGURE 3-4. These constituents show that the concentrations are increasing over time. A graph of the benzene concentration in MW-28 is provided in FIGURE 3-5. The benzene concentration appears to be increasing over time in MW-28 also. This is most likely due to the dissolved phase plume which is migrating down gradient from the recovery wells RW-5 and RW-6.

The recovery wells which do not have free-phase product in them were also sampled and analyzed during the Annual sampling event. Recovery well RW-3 (located immediately north of the Refinery's Waste Water Plant) and RW-11 (the southern most trench along Bolten Road), contained elevated levels of BTEX, with a benzene concentration of 560 and 490 ppb respectively. None of these were indicative of free-phase product existing. Recovery wells RW-16 and RW-17 had low levels of benzene at 12 and 6.7 ppb respectively. These trenches are located on the north end of the plant and have not ever had free-phase product.

We also continue to see the leading edge of the dissolved phase plume reaching KWB-7 and KWB-11. These monitor wells are both east of Bolten Road which is down gradient as seen in FIGURE 3-1 (*Annual Groundwater Gradient Map*). If you remember, we sited the recovery wells on Bolten Road knowing that part of the plume was past this point. In the past, we have had samples that had low levels of COC. It is believed that due to the excessive rain throughout the year that neither of these wells had detectable COC.

Monitor wells KWB-4 and KWB-6 currently do not contain measurable amounts of hydrocarbons. We have installed passive bailers into each of these wells to remove the product as needed. We also pump these wells when necessary to keep up with the product. We began this in 2002 and seem to have effectively removed the product. Initially the bailers were being emptied daily. Now, the bailers are emptied every two to three months and the hydrocarbon layer has been reduced to a sheen or less.

The three new trenches (16, 17, and 18) that were installed at the same time as 15 (Tool Pushers), have never accumulated any product. These trenches are located as follows: 1) on the northeast corner of the refinery property on our farm, 2) along Eagle Draw just east of the North Colony Landfarm, and 3) just west of our former trickling filter. The latter two were installed as part of the North Colony Landfarm clean-up. These trenches are checked weekly for any accumulation of product. At this time, no product has been measured in these trenches. If product is found, they will be pumped, and if warranted, hard piped into our recovery system.

The recovery of product and remediation of groundwater under the refinery is progressing favorably. The drop in thickness of product around the North Colony Landfarm and Tetra-Ethyl Lead Impoundment and the reduction of product found in monitoring wells, are testament to the recovery system's effectiveness. Also there is no product to recover from a number of the wells.

TABLE 3-1 ANNUAL AND SEMI-ANNUAL ANALYSIS RESULTS

TABLE 3-1
ANNUAL and SEMI-ANNUAL ANALYSIS RESULTS

WQCC	Date	METALS (mg/L)			VOLATILES (µg/L)					ANIONS (mg/L)		
		Boron	Iron	Lead	Manganese	Benzene	Ethylbenzene	Xylenes	Methyl tert-butyl ether	Toluene	Chloride	Sulfate
		0.75	1	0.05	0.2	10	750	620		750	250	600
KWB-1A	3/14/2000	BDL	BDL	BDL	BDL	BDL	3.74	BDL	BDL	BDL	BDL	BDL
	9/19/2000	BDL	BDL	BDL	BDL	BDL	3.74	BDL	BDL	BDL	BDL	BDL
	4/10/2001	BDL	BDL	BDL	BDL	2.71	3.15	BDL	BDL	BDL	BDL	BDL
	7/19/2001	BDL	BDL	BDL	BDL	22.8	7.6	BDL	BDL	BDL	BDL	BDL
	4/22/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/30/2003	0.95	0.9	BDL	0.256	BDL	BDL	BDL	BDL	BDL	233	2160
	10/15/2004	0.931	2.08	BDL	0.261	BDL	BDL	BDL	BDL	BDL	395	2480
KWB-1C	9/19/2000	BDL	BDL	BDL	BDL	BDL	3.43	BDL	BDL	BDL	BDL	BDL
	4/10/2001	BDL	BDL	BDL	BDL	1.73	2.3	BDL	BDL	BDL	BDL	BDL
	7/19/2001	BDL	BDL	BDL	BDL	3.16	1.01	BDL	BDL	BDL	BDL	BDL
	10/10/2001	BDL	BDL	BDL	BDL	1.03	BDL	BDL	BDL	BDL	BDL	BDL
	4/22/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	9/30/2003	0.781	2.03	BDL	0.357	BDL	BDL	BDL	BDL	BDL	272	2210
	10/15/2004	0.884	1.97	BDL	0.33	BDL	BDL	BDL	BDL	BDL	321	2360
KWB-2R	9/19/2000	BDL	BDL	BDL	BDL	932	1129	348	BDL	BDL	BDL	BDL
	4/10/2001	BDL	BDL	BDL	BDL	1341	888	61.1	BDL	BDL	BDL	BDL
	7/19/2001	BDL	BDL	BDL	BDL	2464	668	67.3	BDL	BDL	BDL	BDL
	10/10/2001	BDL	BDL	BDL	BDL	1750	1410	754	BDL	BDL	BDL	BDL
	1/10/2002	BDL	BDL	BDL	BDL	39	7.8	BDL	BDL	BDL	BDL	BDL
	3/14/2002	BDL	BDL	BDL	BDL	7200	5800	12700	BDL	5400	BDL	BDL
	7/15/2002	BDL	BDL	BDL	BDL	6900	9800	12900	BDL	2800	BDL	BDL
	9/30/2003	0.421	3.3	0.0132	0.784	1600	1200	730	BDL	29	480	492
	6/29/2004	BDL	BDL	BDL	BDL	1500	2400	2.5	410	BDL	BDL	BDL
KWB-3a	9/19/2000	BDL	BDL	BDL	BDL	1.23	BDL	BDL	BDL	BDL	BDL	BDL
	4/10/2001	BDL	BDL	BDL	BDL	1.23	BDL	BDL	BDL	BDL	BDL	BDL
	7/19/2001	BDL	BDL	BDL	BDL	14.5	4.06	BDL	BDL	BDL	BDL	BDL
	4/22/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
KWB-3R	9/30/2003	0.316	3.26	BDL	0.0737	20	31	18	BDL	BDL	396	2660
	6/29/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/19/2004	0.445	1.94	BDL	BDL	BDL	BDL	BDL	BDL	BDL	449	2680
KWB-7*	4/10/2001	BDL	BDL	BDL	BDL	3.39	3.98	BDL	BDL	BDL	BDL	BDL
	1/10/2002	BDL	BDL	BDL	BDL	1.86	BDL	BDL	BDL	BDL	BDL	BDL
	7/9/2002	BDL	BDL	BDL	BDL	53.1	BDL	BDL	BDL	BDL	BDL	BDL
	9/23/2002	BDL	BDL	BDL	BDL	7.86	BDL	BDL	BDL	BDL	BDL	BDL
	4/22/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/28/2003	BDL	BDL	BDL	BDL	22	10	13	BDL	5.4	BDL	BDL
	6/29/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	35	BDL	BDL	BDL
KWB-9	9/19/2000	BDL	BDL	BDL	BDL	2.19	5.43	BDL	BDL	BDL	BDL	BDL
	4/10/2001	BDL	BDL	BDL	BDL	33.6	11.7	BDL	BDL	BDL	BDL	BDL
	7/19/2001	BDL	BDL	BDL	BDL	28.9	9.48	BDL	BDL	BDL	BDL	BDL
	4/22/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	349	1,260
	10/19/2004	0.435	1.19	BDL	0.0194	BDL	BDL	BDL	BDL	BDL	227	1290
KWB-10	9/30/2003	0.3	1.67	0.0574	0.609	23	20	11	BDL	BDL	164	8
	10/15/2004	0.319	1.27	0.0739	0.464	BDL	BDL	BDL	BDL	BDL	151	6
KWB-11A*	4/10/2001	BDL	BDL	BDL	BDL	6.57	5.67	BDL	BDL	BDL	BDL	BDL
	7/9/2002	BDL	BDL	BDL	BDL	1.24	BDL	BDL	BDL	BDL	BDL	BDL
	9/25/2002	BDL	BDL	BDL	BDL	BDL	2.17	BDL	BDL	BDL	BDL	BDL
	4/22/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/28/2003	BDL	BDL	BDL	BDL	BDL	9.1	9.2	11	BDL	4.5	BDL
	6/29/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	14	BDL	BDL	BDL
KWB-12a	9/19/2000	BDL	BDL	BDL	BDL	2.39	5.79	BDL	BDL	BDL	BDL	BDL
	7/9/2002	BDL	BDL	BDL	BDL	1.94	BDL	BDL	BDL	BDL	BDL	BDL
	9/25/2002	BDL	BDL	BDL	BDL	6.35	2.31	BDL	BDL	BDL	BDL	BDL
	4/22/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
KWB-13*	1/10/2002	BDL	BDL	BDL	BDL	1.04	BDL	BDL	BDL	BDL	1.04	BDL
	12/18/2003	BDL	BDL	BDL	BDL	8.62	BDL	BDL	BDL	BDL	1.94	BDL
	4/25/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/28/2003	BDL	BDL	BDL	BDL	18	13	15	BDL	7.6	BDL	BDL
	6/29/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-18	1/11/2001	BDL	BDL	BDL	BDL	16.4	BDL	BDL	BDL	BDL	BDL	BDL
	4/18/2001	BDL	BDL	BDL	BDL	1.04	BDL	BDL	BDL	BDL	BDL	BDL
	1/10/2002	BDL	BDL	BDL	BDL	3.93	4.24	BDL	BDL	BDL	BDL	BDL
	4/22/2003	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	10/6/2003	0.465	1.55	BDL	0.114	BDL	BDL	BDL	BDL	BDL	193	1,150
	6/29/2004	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
MW-28	6/28/2000	BDL	BDL	BDL	BDL	10.85	BDL	BDL	BDL	BDL	BDL	BDL

FIGURE 3-1 FIRST SEMI-ANNUAL GROUNDWATER GRADIENT MAP

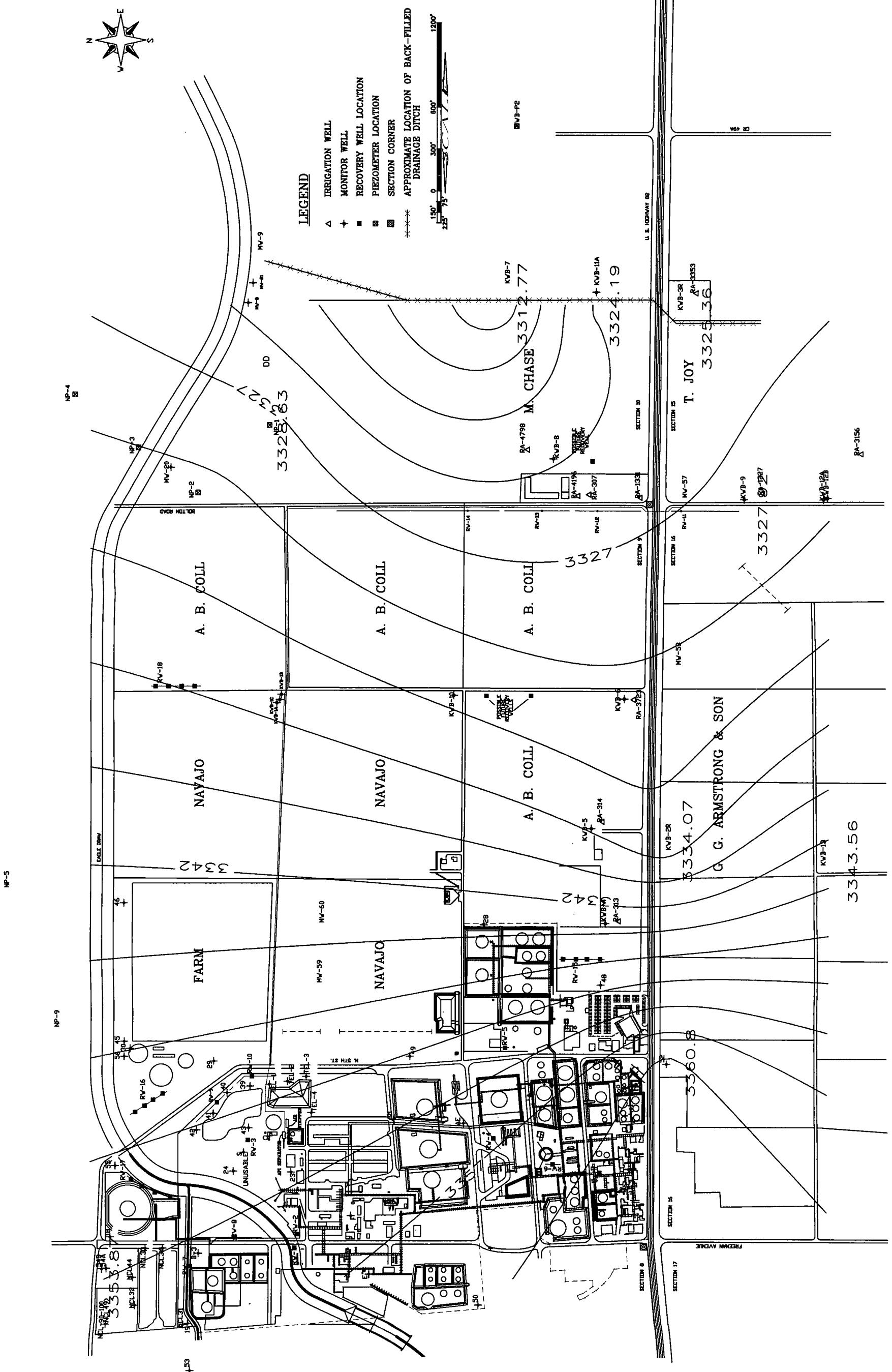
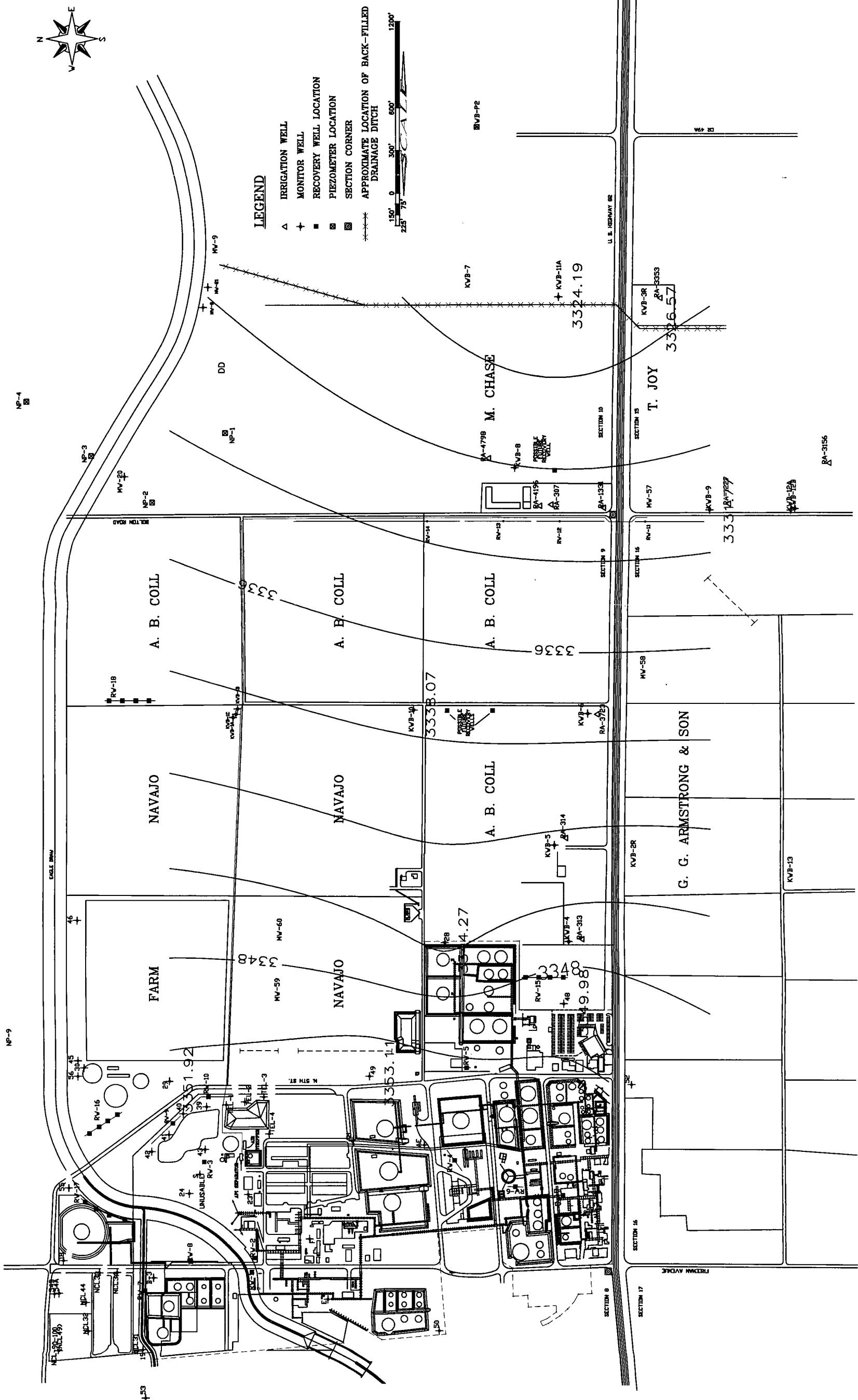


FIGURE 3-2 SECOND SEMI-ANNUAL GROUNDWATER GRADIENT MAP



NOTES _____
TRENCHES _____
PROTECTIVE CULTURE TRENCHES _____

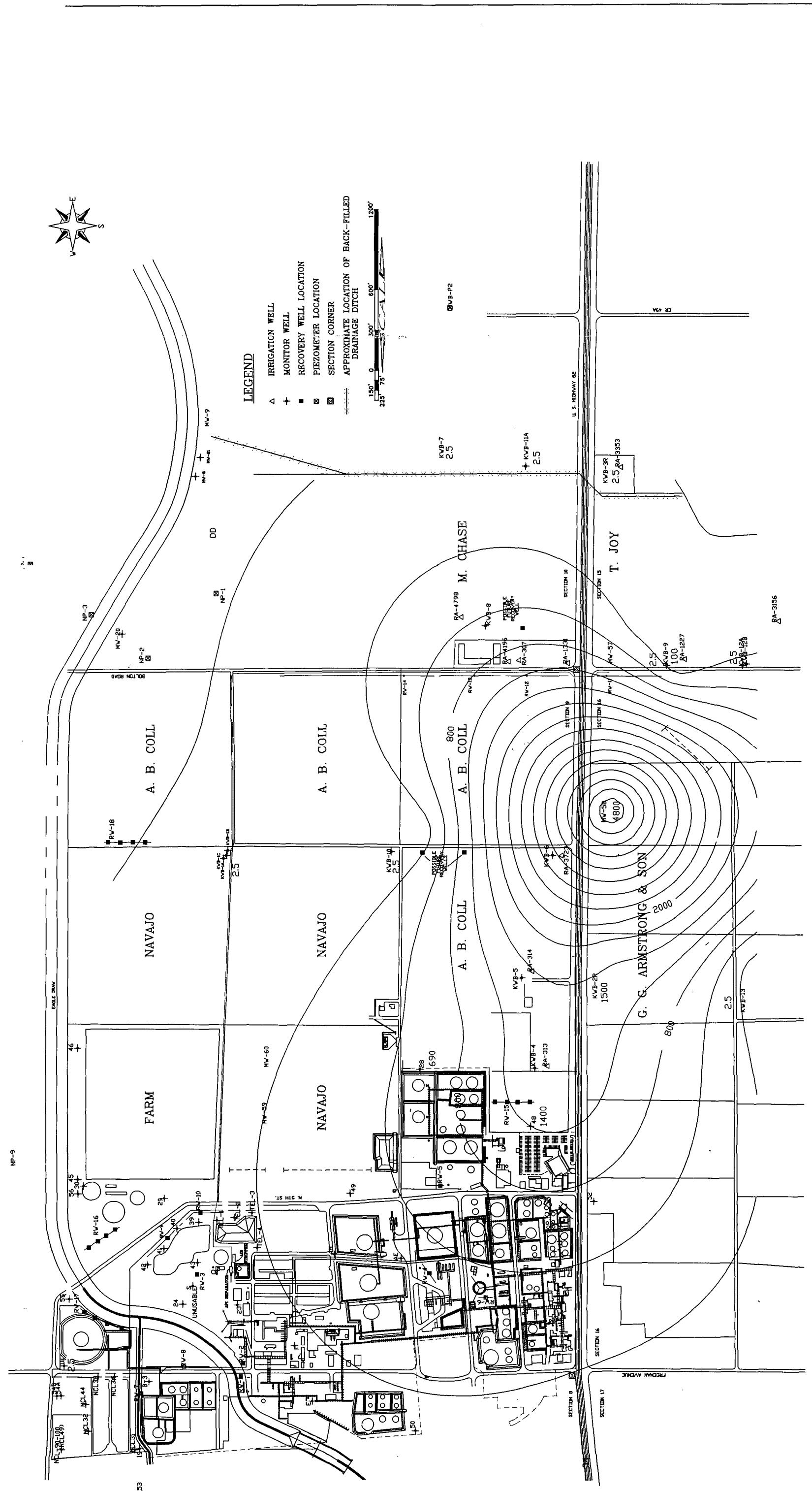
REFERENCE DRAWINGS

DRAWING TITLE

FIGURE 3-2
GROUNDWATER
POTENTIOMETRIC MAP
NAVAJO REFINING

NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

FIGURE 3-3 BENZENE CONCENTRAION ISOPLETH



NAVAJO REFINING CO.
ENGINEERING DEPARTMENT
P.O. DRAWER 159
ARTESIA, NEW MEXICO

DRAWN BY	CHECKED BY	SCALE	REV.
D.L.V.		AS SHOWN	0
DATE 3-17-95		REF. NO. 90-4-4-D	
APPROVED BY D.L.V.			

FIGURE 3-3
BENZENE
ISOPLETH MAP

FIGURE 3-4 KWB-2R ANALYTICAL RESULTS GRAPH



FIGURE 3-4
KWB-2R

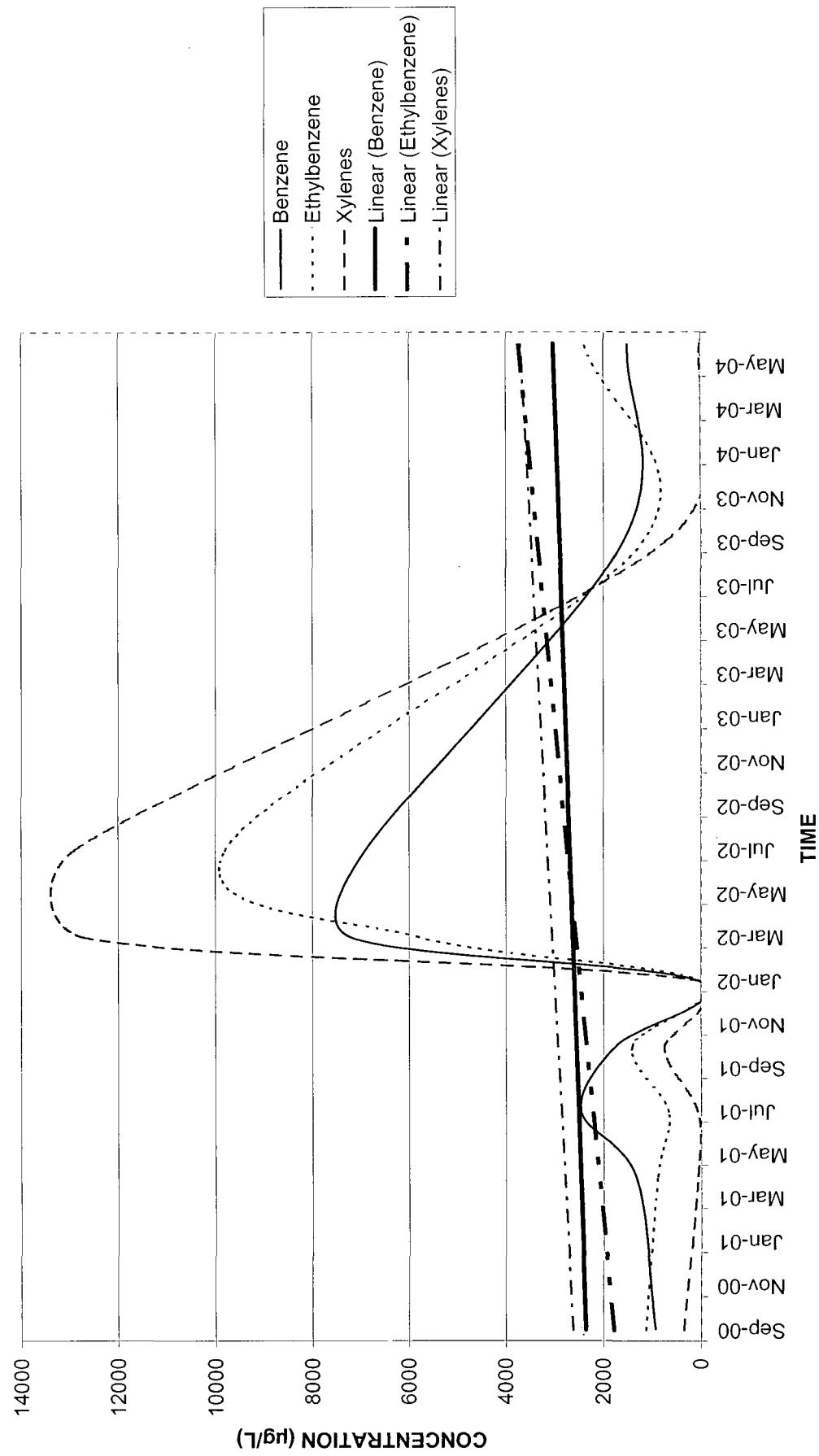
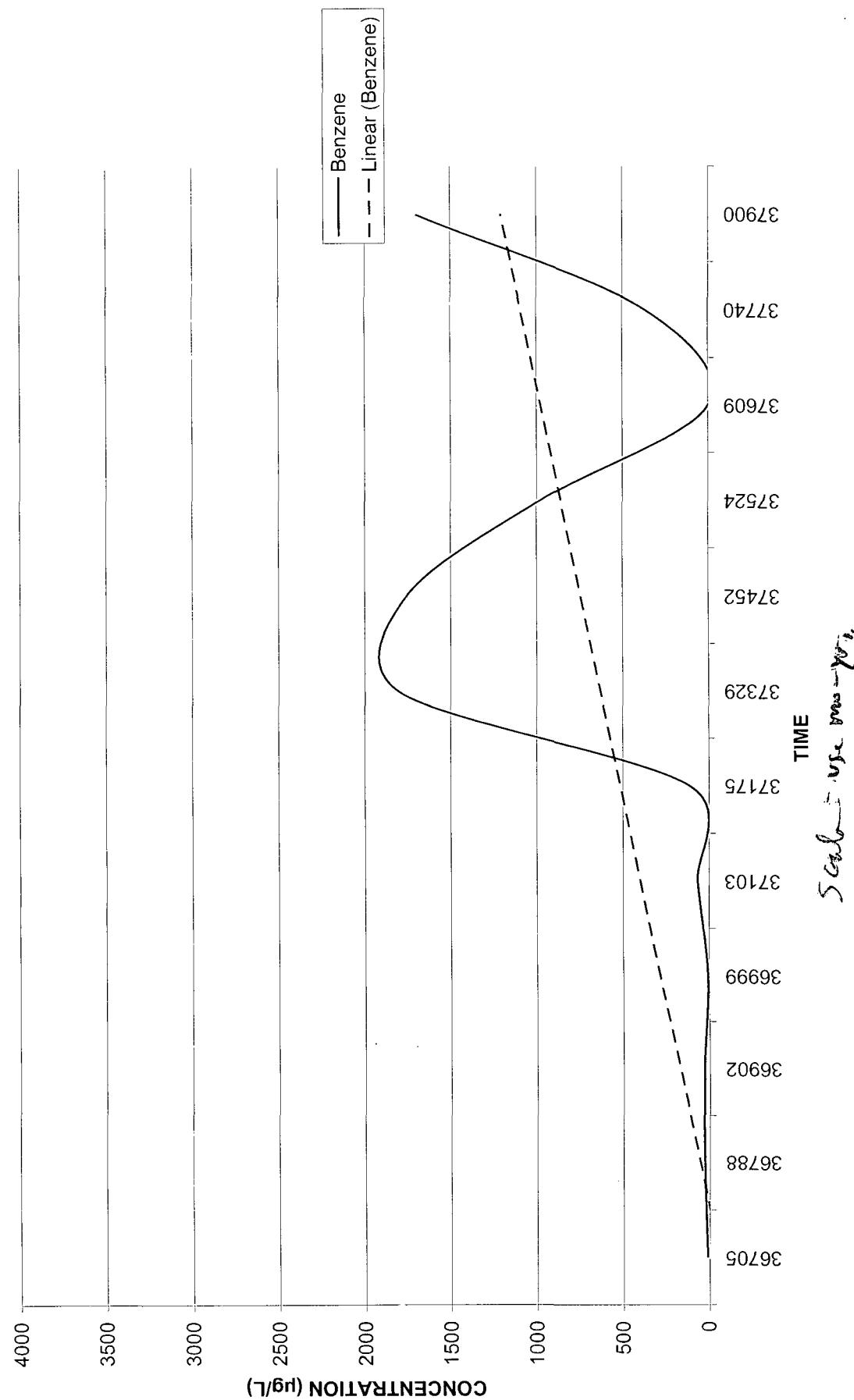


FIGURE 3-5 MW-28 ANALYTICAL RESULTS GRAPH

FIGURE 3-5
MW-28



4.0 NCL/TEL

TABLE's 4-1 thru 4-4 contain the field observations for the fifteen monitoring wells sampled. This is the second year that Dissolved Oxygen (D.O.) and Oxidation-Reduction Potential (ORP) have been collected. These parameters, along with pH, Temperature, and Conductivity are all taken with a flow-thru cell. A 12-volt submersible pump is used to pump water through the cell. The cell is a closed system with an influent and effluent port. The probes are submersed in the water with a minimal amount of air left in the cell. Continuous readings of all of the field parameters are taken as the water passes through the cell.

TABLE 4-5 contains the analytical results for the monitoring wells. The three metals; boron, iron, and manganese had several results above the WQCC level. It is believed that they are at naturally occurring levels because the concentration is not statistically different between the wells or past analysis results, as can be seen in the TABLE. Monitoring well NCL-34 has shown a fluctuation in BTEX concentrations. A graph of benzene, ethyl benzene, and xylenes is provided in FIGURE 4-1. As this graph shows, these constituents have had an overall decline over the years. Benzene has ranged from 5,010 ppb in 1997 down to 957 ppb in 2002 and now back to 2,300 ppb in 2004. This may be due to water level fluctuations.

Monitoring wells TEL-2 and TEL-3 have both been declining over the last several years and illustrated in FIGURE's 4-2 and 4-3, respectively. These wells are generally down gradient from the TEL impoundment. These wells have exhibited free-phase product on them over the years. However, the thickness of product has been declining from 2 to 3 feet ten to fifteen years ago to less than an inch in recent years.

Monitoring well TEL-4, has been showing a decrease in BTEX concentration, as illustrated in FIGURE 4-4. This well is the up gradient well for the TEL impoundment. As previously stated, it is believed that this is due to a historic plume resulting from the former tank farm which was located in the same vicinity as the current Alky and CCR units. All of the laboratory analytical data sheets for the 2004 sampling events are provided in ATTACHMENT C.

No significant free-phase hydrocarbon plume exists around the plant and therefore no isopleth was created. Monitoring well TEL-3 has had a consistent layer of hydrocarbon while none of the other TEL monitoring wells contained any. This is the only monitoring well to contain hydrocarbons throughout the year.

TABLE 4-1 SUMMARY OF FIELD OBSERVATIONS (NCL/TEL First Quarter)

TABLE 4-1
SUMMARY OF FIELD OBSERVATIONS
First 2004 Quarterly Sampling

WELL #	CONDUCTIVITY	TEMPERATURE	pH	DO (%)	ORP	ELEV. TO TOP OF CASING	GROUND WATER ELEVATION	TD	DEPTH TO H2O	DEPTH TO FLUID	THICKNESS S OF PRODUCT	CORR. DEPTH TO H2O	WELL VOLUME	MINIMUM VOLUME EVACUATED	Comments
TEL 4	3054	20.8	6.79	1.50	-368.50	3363.31	3354.45	27.2	8.86	8.86	0	8.86	3.0	9	slight odor
TEL 3	2827	20.1	6.92	4.20	-342.20	3361.45	3355.28	27.2	6.26	6.16	0.1	6.17	3.4	11	slight odor
TEL 2	2976	20.9	6.93	11.20	-372.90	3362.23	3355.53	27.2	6.70	6.70	0	6.70	3.3	11	heavy odor
TEL 1	3572	20.3	7.10	3.40	-307.20	3361.34	3355.79	27.2	5.55	5.55	0	5.55	3.5	11	clear
MW-53	2250	22.9	6.93	0.01	-70.10	3367.87	3353.79	20.5	14.08	14.08	0	14.08	1.0	4	clear
MW-5A	1905	20.1	6.75	11.20	-141.90	3365.66	3352.99	31.3	12.67	12.67	0	12.67	3.0	10	clear; odor
MW-55	3082	20.7	6.83	1.60	122.20	3363.97	3353.19	26.5	10.78	10.78	0	10.78	2.6	8	clear; no odor
MW-59	2994	20.5	6.81	1.80	-255.40	3361.21	3357.53	30.1	3.68	3.68	0	3.68	4.3	13	
MW-60	3215	20.7	6.78	4.90	-129.70	3362.42	3357.00	30.2	5.42	5.42	0	5.42			
NCL-32	2505	20.7	6.88	8.90	140.80	3363.72	3352.72	19.7	11.00	11.00	0	11.00	1.4	5	oil sheen
NCL-33	2110	21.5	6.60	3.30	-5.20	3364.74	3353.86	19.7	10.88	10.88	0	10.88	1.4	5	clear
NCL-34	2350	21.9	6.71	2.80	-233.40	3364.74	3353.39	19.3	11.36	11.35	0.01	11.35	1.3	4	clear

TABLE 4-2 SUMMARY OF FIELD OBSERVATIONS (NCL/TEL Second Quarter)

TABLE 4-2
Summary of Field Observations
Second 2004 Quarterly Sampling

WELL #	CONDUCTIVITY	TEMPERATURE	pH	DO (%)	ORP	ELEV. TO TOP OF CASING	GROUND WATER ELEVATION	TD	DEPTH TO H ₂ O FLUID	THICKNESS S OF PRODUCT	CORR. DEPTH TO H ₂ O	WELL VOLUME	MINIMUM VOLUME EVACUATED	Comments
TEL 4	3865	19.7	6.66	9.90	-369.80	3363.31	3355.61	27.2	7.70	0	7.70	3.2	10	slight odor
TEL 3	3260	18.6	6.68	8.30	-363.70	3361.45	3356.10	27.2	6.06	5.24	0.82	5.35	3.6	11 slight odor
TEL 2	2918	19.8	6.81		-373.10	3362.23	3355.39	27.2	6.84	6.84	0	6.84	3.3	10 hvy odor
TEL 1	3681	19.6	6.86		-291.60	3361.34	3355.51	27.2	5.83	5.83	0	5.83	3.5	11 clear
MW-53	2100	19.2	6.95	0.10	-80.30	3367.87	3357.62	20.5	10.25	10.25	0	10.25	1.7	6 clear
MW-54A	1634	18.7	6.71	6.70	-58.40	3365.66	3355.08	31.3	10.58	10.58	0	10.58	3.4	11 clear, odor
MW-55	1776	19.7	6.91	6.10	-114.40	3363.97	3354.76	26.5	9.21	9.21	0	9.21	2.8	9 clear, no odor
MW-59	2986	19.9	6.98	3.10	-258.90	3361.21	3358.06	30.1	3.15	3.15	0	3.15		
MW-60	2950	19.7	6.86	11.90	-206.60	3362.42	3358.11	30.2	4.31	4.31	0	4.31		
NCL-32	2450	20.1	6.72	9.30	-35.60	3363.72	3354.75	19.7	8.97	8.97	0	8.97	1.8	6 oil sheen
NCL-33	2231	19.7	6.68	17.30	-195.70	3364.74	3356.13	19.7	8.61	8.61	0	8.61	1.8	6 clear
NCL-34	2195	21.6	6.72	6.70	-331.00	3364.74	3355.62	19.3	9.12	9.12	0	9.12	1.7	5 clear

TABLE 4-3 SUMMARY OF FIELD OBSERVATIONS (NCL/TEL Third Quarter)

TABLE 4-3
Summary of Field Observations
Third 2004 Quarterly Sampling

WELL #	CONDUCTIVITY	TEMPERATURE	pH	DO (%)	ORP	ELEV. TO TOP OF CASING	GROUND WATER ELEVATION	TD	DEPTH TO H2O	DEPTH TO FLUID	THICKNESS S OF PRODUCT	CORR. DEPTH TO H2O	WELL VOLUME	MINIMUM VOLUME EVACUATED	Comments
TEL 4	2192	20.4	6.91	148.00	308.50	3363.31	3353.39	27.2	9.92	9.92	0	9.92	2.8	9	slight odor
TEL 3	3155	19.5	6.83	0.00	-351.20	3361.45	3353.75	27.2	7.81	7.68	0.13	7.70	3.2	10	slight odor
TEL 2	2413	20.1	6.96	0.20	-367.10	3362.23	3353.99	27.2	8.24	8.24	0	8.24	3.1	10	heavy odor
TEL 1	2546	19.9	7.07	0.40	-319.20	3361.34	3353.71	26.9	7.63	7.63	0	7.63	3.1	10	clear
MW-53	2232	21.3	7.25	1.20	79.40	3367.87	3356.89	20.5	10.98	10.98	0	10.98	1.6	5	clear
MW-54A	2192	19.4	6.88	1.00	-172.80	3365.66	3354.48	31.3	11.18	11.18	0	11.18	3.3	10	clear, odor
MW-55	3278	20.1	6.88	0.80	51.00	3363.97	3354.85	26.5	9.12	9.12	0	9.12	2.8	9	clear, no odor
MW-59	3092	20.3	6.89	1.00	-246.70	3361.21	3354.04	35.1	7.17	7.17	0	7.17	4.6	14	
MW-60	3334	19.9	6.80	0.80	-174.90	3361.15	3353.02	35.1	8.13	8.13	0	8.13	4.4	14	
NCL-32	2578	20	6.96	0.90	-153.40	3363.72	3354.45	19.8	9.27	9.27	0	9.27	1.7	6	oil sheen
NCL-33	2226	20.1	6.74	17.60	-180.40	3363.28	3353.70	20.5	9.58	9.58	0	9.58	1.8	6	clear
NCL-34	2247	21.6	6.77	0.30	-327.30	3364.74	3354.39	19.3	10.35	10.35	0	10.35	1.5	5	clear

TABLE 4-4 SUMMARY OF FIELD OBSERVATIONS (NCL/TEL Fourth Quarter)

TABLE 4-4
Summary of Field Observations
Forth 2004 Quarterly Sampling

WELL #	CONDUCTIVITY	TEMPERATURE	pH	DO (%)	ORP	ELEV. TO TOP OF CASING	GROUND WATER ELEVATION	TD	DEPTH TO H2O	DEPTH TO FLUID	THICKNES S OF PRODUCT	CORR. DEPTH TO H2O	WELL VOLUME	MINIMUM VOLUME EVACUATED	Comments
TEL 4	2995	21.4	6.86	1.0	-319.7	3363.31	3354.82	27.2	8.49	8.49	0	8.49	3.1	10	slight odor
TEL 3	3218	20	6.96	-0.2	-346.8	3361.45	3354.38	27.2	7.18	7.05	0.13	7.07	3.3	10	slight odor
TEL 2	3188	20.7	7.02	-0.2	-361.4	3362.23	3354.65	27.2	7.58	7.58	0	7.58	3.2	10	slight odor
TEL 1	3083	20.5	7.27	1.0	-280.7	3361.34	3354.84	26.9	6.50	6.50	0	6.50	3.3	10	clean
MW-53	1976	22.2	7.61	2.3	94.7	3367.87	3358.54	20.5	9.33	9.33	0	9.33	1.8	6	clean
MW-54A	2370	20.3	7.05	0.8	-162.2	3365.66	3356.26	31.3	9.40	9.40	0	9.40	3.6	11	clean, odor
MW-55	2913	19.9	7.45	2.9	93.0	3363.97	3355.83	26.5	8.14	8.14	0	8.14	3.0	9	clean, no odor
MW-59	3204	20.8	7.00	2.3	-273.6	3361.21	3356.70	30.1	4.51	4.51	0	4.51	4.2	13	clean, odor
MW-60	3581	19.9	6.96	0.4	-216.7	3361.15	3355.25	30.2	5.90	5.90	0	5.90	4.0	12	clean, odor
NCL-49	3448	20.5	7.38	0.4	69.5	3363.72	3349.48	32.1	14.24	14.24	0	14.24	2.9	9	oil sheen w/o odor
NCL-32	2120	20.3	7.26	1.3	-87.9	3364.74	3357.16	1937	7.58	7.58	0	7.58	314.9	945	oil sheen
NCL-44	2179	20.5	6.85	0.5	-273.2	3364.74	3357.55	19.8	7.19	7.19	0	7.19	2.1	7	clear
NCL-33	2042	21.11	6.85	2.8	-88.0	3363.23	3355.43	20.5	7.80	7.80	0	7.80	2.1	7	clear
NCL-34	2249	22.3	6.87	0.2	-343.4	3364.74	3356.16	19.3	8.58	8.58	0	8.58	1.7	6	clear

TABLE 4-5 NCL/TEL GROUNDWATER WELL ANALYTICAL DATA

NCL/TEL GROUNDWATER WELL ANALYTICAL DATA											
Date	METALS (mg/L)	Boron	Copper	Iron	Lead	Manganese	Benzene	Ethylbenzene	Xylenes	Chloroform	Sulfuric
12/9/1997	29	0.226	BDL	1.32	BDL	0.212	BDL	BDL	BDL	BDL	BDL
9/30/2002	6.55	0.036	0.0329	3.37	BDL	3.37	BDL	BDL	BDL	BDL	BDL
12/26/2002	BDL	0.036	0.0329	3.37	BDL	3.37	BDL	BDL	BDL	BDL	BDL
8/11/2003	0.53	0.301	1.12	1.89	BDL	0.622	BDL	BDL	BDL	BDL	BDL
9/30/2003	0.53	0.301	1.12	1.89	BDL	0.622	BDL	BDL	BDL	BDL	BDL
12/27/2002	BDL	0.244	0.538	0.352	BDL	0.0929	1140	957	44.3	BDL	BDL
10/1/2002	BDL	0.287	8.73	BDL	0.0901	0.0619	0.47	50.0	1950	BDL	BDL
8/12/2003	0.0211	0.0211	0.35	0.000738	1.18	BDL	0.0146	200	190	33.9	22.1
11/6/2003	0.026	0.026	0.251	0.000738	1.18	BDL	0.14	4200	400	240	18.10
11/4/2004	BDL	0.027	0.027	1.98	BDL	0.737	BDL	0.737	BDL	BDL	BDL
11/12/2003	0.0269	0.0269	0.257	0.00074	1.94	BDL	0.736	BDL	BDL	BDL	BDL
8/11/2003	0.191	0.3	0.27	1.79	BDL	0.739	BDL	BDL	BDL	BDL	BDL
11/4/2003	0.0269	0.0269	0.256	0.000693	1.56	BDL	0.737	BDL	BDL	BDL	BDL
11/12/2003	0.191	0.3	0.27	1.79	BDL	0.739	BDL	BDL	BDL	BDL	BDL
11/4/2004	0.0111	0.0111	0.396	0.000721	1.11	BDL	2.42	BDL	BDL	BDL	BDL
11/13/2003	1.1	0.34	0.00782	1.11	BDL	1.99	47	13	16	57.9	11.300
8/11/2003	1.1	0.34	0.00782	1.11	BDL	1.99	47	13	16	57.9	11.300
11/12/2003	0.0111	0.0111	0.396	0.000721	1.11	BDL	2.42	BDL	BDL	BDL	BDL
4/12/2004	0.0122	0.0281	0.257	0.00072	1.03	BDL	0.427	BDL	BDL	BDL	BDL
7/19/2004	0.0143	0.0281	0.257	0.00072	1.03	BDL	0.427	BDL	BDL	BDL	BDL
7/19/2004	0.0143	0.0281	0.257	0.00072	1.03	BDL	0.427	BDL	BDL	BDL	BDL
4/12/2004	0.0232	0.033	0.00579	1.08	BDL	0.407	3800	380	56	168	1.630
2/1/2004	0.102	0.49	0.73	4.81	BDL	0.688	BDL	BDL	BDL	204	1.630
11/6/2003	0.0892	0.04	0.0108	2.27	BDL	0.764	27	15	BDL	219	1.540
4/13/2004	0.0892	0.04	0.0108	2.27	BDL	0.764	27	15	BDL	219	1.540
10/1/2002	0.372	0.525	0.072	0.312	BDL	0.43	BDL	BDL	BDL	BDL	BDL
12/30/2002	0.376	0.287	0.521	0.741	BDL	0.346	BDL	BDL	BDL	BDL	BDL
12/26/2002	0.376	0.287	0.521	0.741	BDL	0.346	BDL	BDL	BDL	BDL	BDL
8/12/2003	0.281	0.309	0.000458	0.355	BDL	0.328	BDL	BDL	BDL	BDL	BDL
11/13/2003	0.0258	0.474	0.00072	1.76	BDL	0.595	BDL	BDL	BDL	BDL	BDL
8/11/2003	0.281	0.309	0.000458	0.355	BDL	0.328	BDL	BDL	BDL	BDL	BDL
11/13/2003	0.0258	0.474	0.00072	1.76	BDL	0.595	BDL	BDL	BDL	BDL	BDL
7/14/2004	0.0143	0.0229	0.301	0.000612	0.954	BDL	0.341	190	15	BDL	BDL
7/19/2004	0.0143	0.0229	0.301	0.000612	0.954	BDL	0.341	190	15	BDL	BDL
4/12/2004	0.0232	0.033	0.00579	1.08	BDL	0.407	3800	380	56	168	1.630
2/1/2004	0.102	0.49	0.73	4.81	BDL	0.688	BDL	BDL	BDL	204	1.630
11/6/2003	0.0892	0.04	0.0108	2.27	BDL	0.764	27	15	BDL	219	1.540
4/13/2004	0.0892	0.04	0.0108	2.27	BDL	0.764	27	15	BDL	219	1.540
10/1/2002	0.372	0.525	0.072	0.312	BDL	0.43	BDL	BDL	BDL	BDL	BDL
12/30/2002	0.376	0.287	0.521	0.741	BDL	0.346	BDL	BDL	BDL	BDL	BDL
12/26/2002	0.376	0.287	0.521	0.741	BDL	0.346	BDL	BDL	BDL	BDL	BDL
8/12/2003	0.281	0.309	0.000458	0.355	BDL	0.328	BDL	BDL	BDL	BDL	BDL
11/13/2003	0.0258	0.474	0.00072	1.76	BDL	0.595	BDL	BDL	BDL	BDL	BDL
7/14/2004	0.0143	0.0229	0.301	0.000612	0.954	BDL	0.341	190	15	BDL	BDL
7/19/2004	0.0143	0.0229	0.301	0.000612	0.954	BDL	0.341	190	15	BDL	BDL
4/12/2004	0.0232	0.033	0.00579	1.08	BDL	0.407	3800	380	56	168	1.630
2/1/2004	0.102	0.49	0.73	4.81	BDL	0.688	BDL	BDL	BDL	204	1.630
11/6/2003	0.0892	0.04	0.0108	2.27	BDL	0.764	27	15	BDL	219	1.540
4/13/2004	0.0892	0.04	0.0108	2.27	BDL	0.764	27	15	BDL	219	1.540
10/1/2002	0.372	0.525	0.072	0.312	BDL	0.43	BDL	BDL	BDL	BDL	BDL
12/30/2002	0.376	0.287	0.521	0.741	BDL	0.346	BDL	BDL	BDL	BDL	BDL
12/26/2002	0.376	0.287	0.521	0.741	BDL	0.346	BDL	BDL	BDL	BDL	BDL
8/12/2003	0.281	0.309	0.000458	0.355	BDL	0.328	BDL	BDL	BDL	BDL	BDL
11/13/2003	0.0258	0.474	0.00072	1.76	BDL	0.595	BDL	BDL	BDL	BDL	BDL
7/14/2004	0.0143	0.0229	0.301	0.000612	0.954	BDL	0.341	190	15	BDL	BDL
7/19/2004	0.0143	0.0229	0.301	0.000612	0.954	BDL	0.341	190	15	BDL	BDL
4/12/2004	0.0232	0.033	0.00579	1.08	BDL	0.407	3800	380	56	168	1.630
2/1/2004	0.102	0.49	0.73	4.81	BDL	0.688	BDL	BDL	BDL	204	1.630
11/6/2003	0.0892	0.04	0.0108	2.27	BDL	0.764	27	15	BDL	219	1.540
4/13/2004	0.0892	0.04	0.0108	2.27	BDL	0.764	27	15	BDL	219	1.540
10/1/2002	0.372	0.525	0.072	0.312	BDL	0.43	BDL	BDL	BDL	BDL	BDL
12/30/2002	0.376	0.287	0.521	0.741	BDL	0.346	BDL	BDL	BDL	BDL	BDL
12/26/2002	0.376	0.287	0.521	0.741	BDL	0.346	BDL	BDL	BDL	BDL	BDL
8/12/2003	0.281	0.309	0.000458	0							

FIGURE 4-1 NCL-34 ANALYTICAL RESULTS GRAPH

FIGURE 4-1
NCL-34

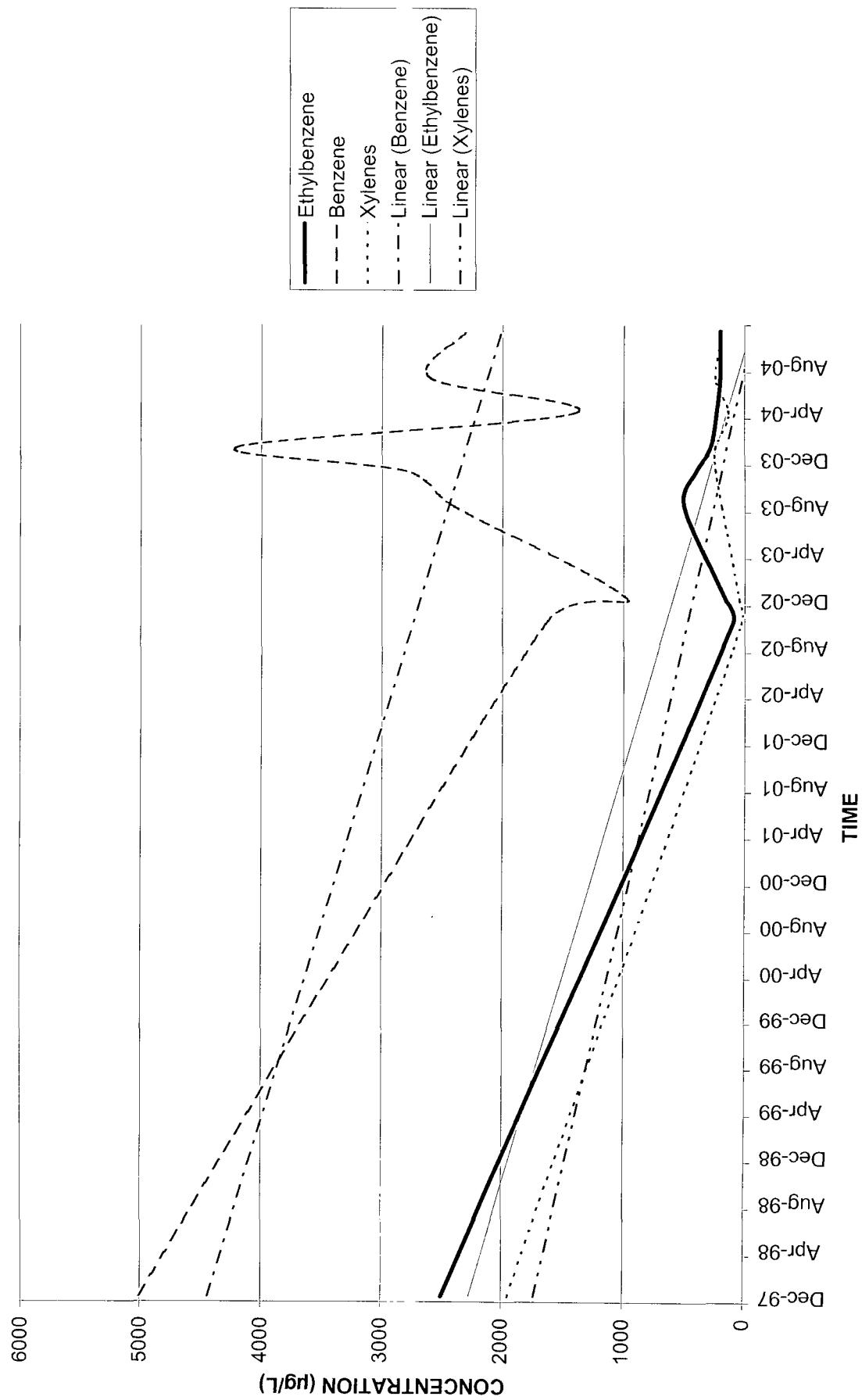


FIGURE 4-2 TEL-2 ANALYTICAL RESULTS GRAPH

FIGURE 4-2
TEL-2

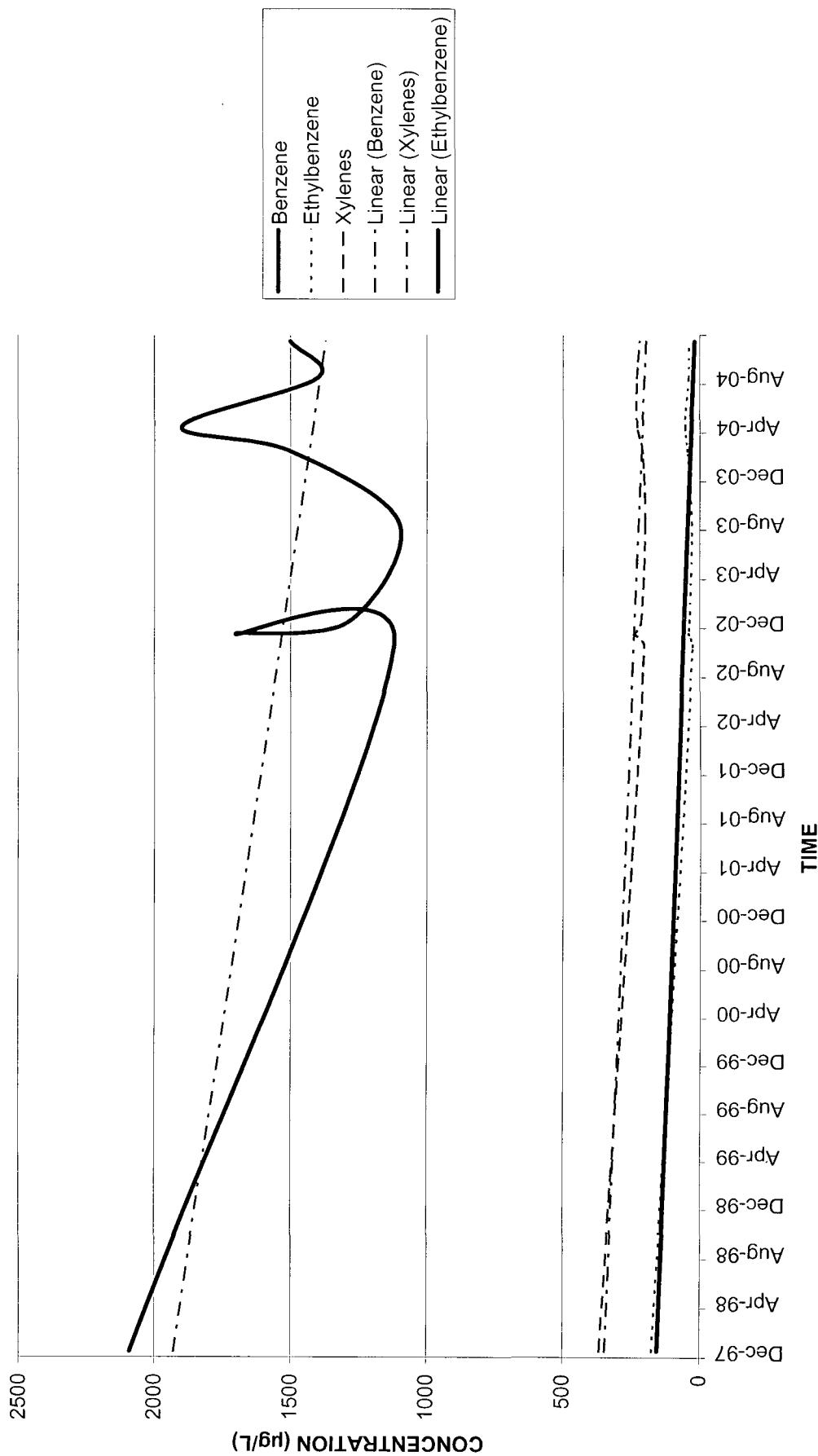


FIGURE 4-3 TEL-3 ANALYTICAL RESULTS GRAPH

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2

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FIGURE 4-3
TEL-3

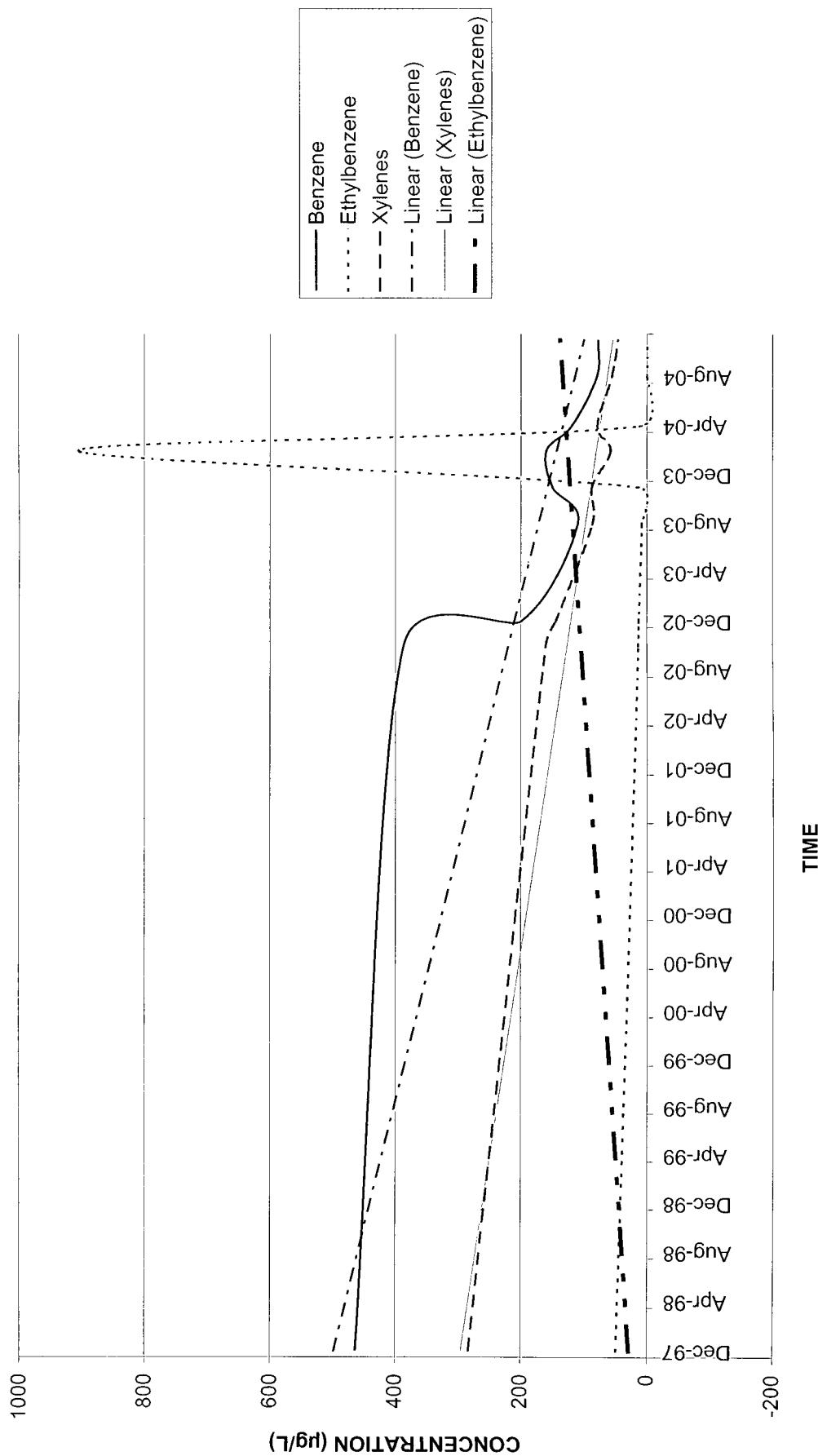


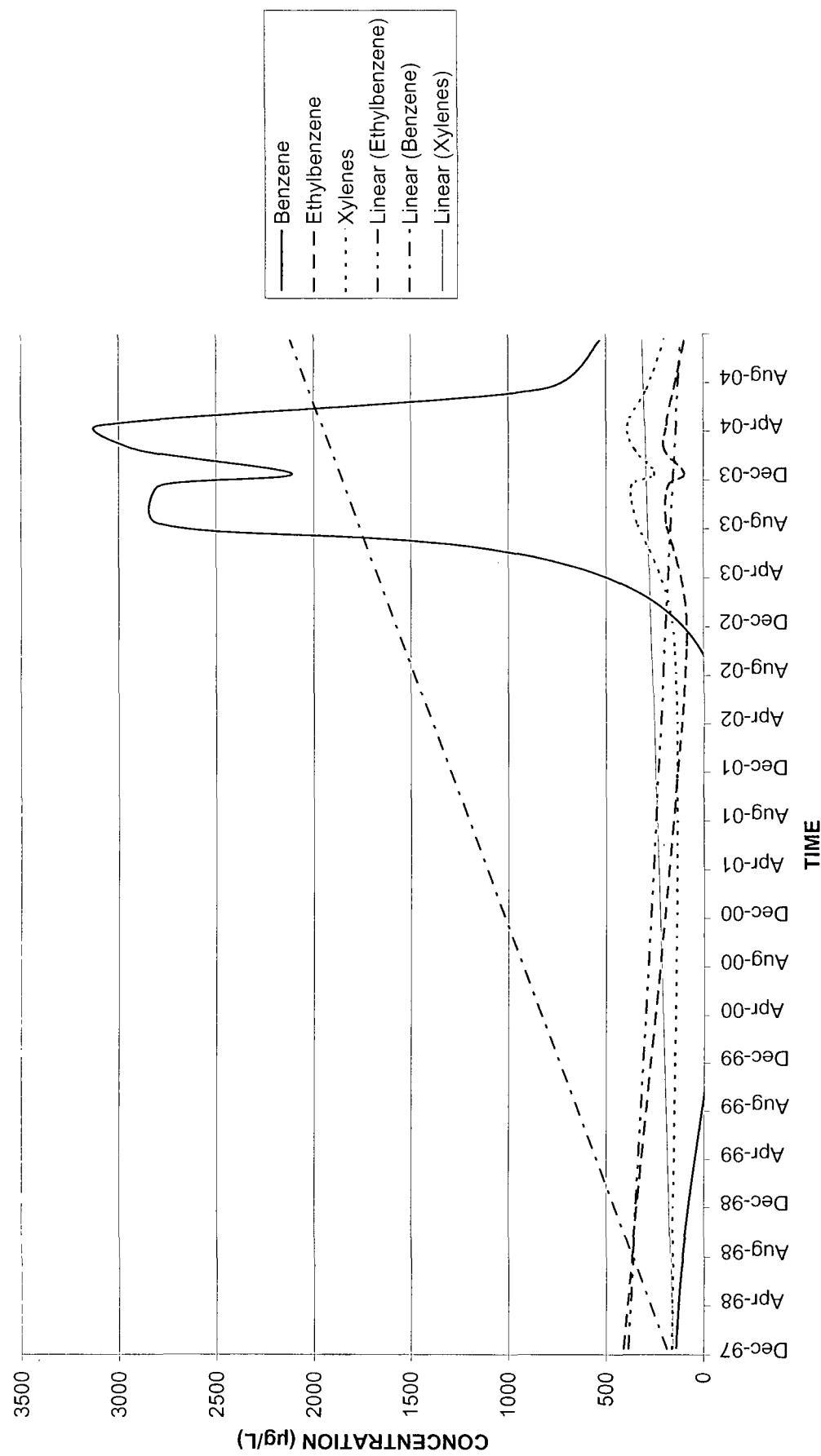
FIGURE 4-4 TEL-4 ANALYTICAL RESULTS GRAPH

1

2

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FIGURE 4-4
TEL-4



5.0 EVAPORATION PONDS

TABLE 5-1 contains the analytical results for the last four years of sampling events for this set of wells. None of these wells have exhibited concentrations of hydrocarbons above the method detection limit. The levels of metals and anions occurring above the WQCC level are consistent between the wells and are assumed to be naturally occurring. The laboratory analytical data sheets for 2004 are provided in ATTACHMENT D.

FIGURE 5-1 is the groundwater gradient map for the evaporation ponds. The overall direction appears to be toward the southeast. Nothing of significant has changed.

TABLE 5-1 EVAPORATION PONDS MONITOIRNGWELL ANALYTICAL DATA

TABLE 5-1
EVAPORATION PONDS MONITORING WELL ANALYTICAL

WQCC	Date	pH	Cond.	Temp. °C	Metals (mg/L)						ANIONS (mg/L)	
					Arsenic	Boron	Cadmium	Chromium	Iron	Manganese	Chloride	Sulfate
MW-1R	6/25/2003	7.01	850	21	0.00584	0.369	BDL	0.195	7.52	2.75	2040	2750
MW-2	7/6/2004	BDL	BDL	0.032	0.495	BDL	0.00564	3.42	1.58	2180	2140	
MW-3	5/31/2001	7.5	8100	20.8	0.032	0.41	BDL	BDL	3	0.401	629	1190
	6/25/2003	6.91	900	20.8	0.0535	0.71	BDL	0.00237	3.79	2.3	1020	1990
MW-4	7/6/2004	BDL	BDL	0.124	0.505	BDL	BDL	4.71	1.58	923	1370	
MW-5	5/31/2001	7.88	1100	21.2	0.258	0.65	413	BDL	13	3.12	4500	7850
	6/25/2003	6.89	750	21.2	0.0412	1.93	BDL	0.0141	6.14	1.82	4780	8980
MW-6	7/6/2004	BDL	BDL	0.0352	0.394	BDL	BDL	6.46	0.671	846	2170	
MW-7	5/31/2001	7.59	1310	21.3	0.195	0.61	BDL	BDL	10	2.25	2530	3720
	6/25/2003	6.79	1100	20.5	0.0329	1.01	BDL	0.0137	8.6	0.502	2490	3210
OCD-1	5/31/2001	8.1	9000	21.6	0.262	0.46	BDL	BDL	7.6	2.39	2390	3540
	6/26/2003	7.01	1250	20.8	0.112	0.499	BDL	0.00166	13.3	2.88	3240	3430
OCD-2	7/7/2004	BDL	BDL	BDL	0.455	BDL	BDL	8.89	1.48	2150	2250	
OCD-3	5/31/2001	8.4	8950	20.4	0.012	0.76	BDL	BDL	3.9	0.268	1120	1860
	6/26/2003	6.81	900	20.9	0.00352	0.481	BDL	0.00108	4.3	0.242	789	1460
OCD-4	7/7/2004	BDL	BDL	BDL	1.43	BDL	BDL	10.3	0.249	4660	2950	
OCD-5	5/31/2001	8.51	1000	19.9	0.026	1.2	BDL	BDL	6.5	0.224	4790	3030
	6/26/2003	6.88	1150	21	0.00589	1.3	BDL	0.000866	7.14	0.259	4790	3080
OCD-6	7/6/2004	BDL	BDL	0.109	0.759	BDL	BDL	11.9	2.44	3380	4300	
OCD-7	6/4/2001	7.1	1100	21.2	0.207	1.5	BDL	BDL	8.1	1.37	2060	3130
	6/26/2003	6.92	1000	21.8	0.00436	0.678	0.000914	0.00374	6.06	1.14	724	2540
OCD-8	7/7/2004	BDL	BDL	0.0862	0.862	BDL	0.00587	11.1	3.45	2450	3500	

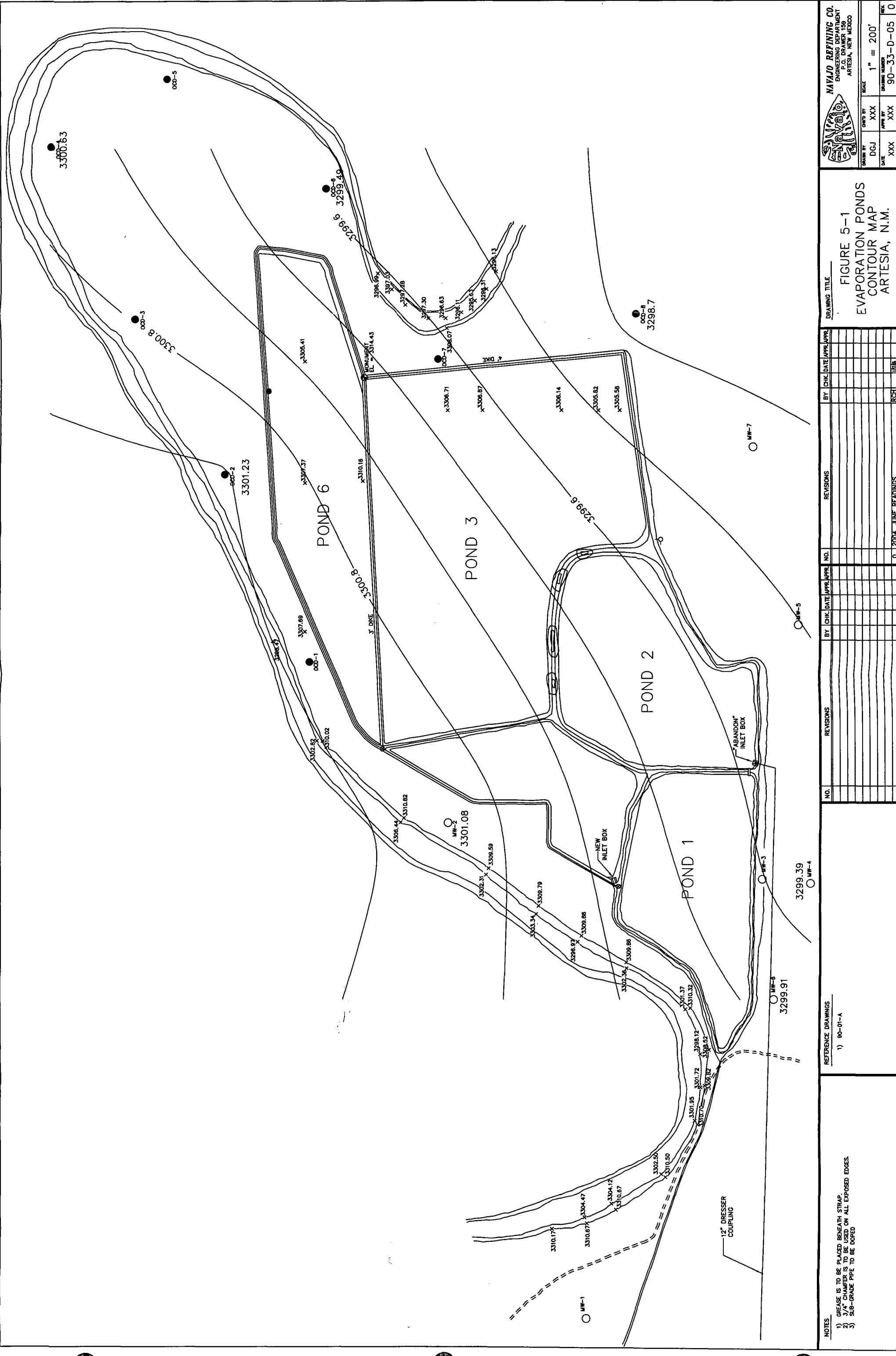
NOTES BDL = Below detection Limit

FIGURE 5-1 EVAPORATION PONDS GROUNDWATER GRADIENT MAP

1

1

1



6.0 REVERSE OSMOSIS REJECT WATER

Navajo Refining discharged a total of 103,428,000 gallons to the farms for irrigation during 2004. Since we started discharging the Reverse Osmosis (RO) reject water, we have discharged a total of 1,336,738,000 gallons. This is broken down as follows: 196,713,498 gallons have been put into Eagle Draw (stopped in December 1999) and 1,139,925,000 gallons have been put on our farms.

No TABLE is provided for the analytical as there were no chemicals of concern above the WQCC standards. Sulfate was found to be above the WQCC standard. This is expected as most all of the groundwater wells in this area are above the WQCC standard. The laboratory analytical reports for the RO Reject sampling are provided in ATTACHMENT E.

7.0 IRRIGATION WELL ANALYSIS

Ten irrigation wells are sampled monthly during the growing season. A summary of the analytical results are provided in TABLE 7-1. No hydrocarbon contaminants were detected above the WQCC levels. The metals and anions are believed to be naturally occurring levels as there are no significantly different values between up gradient and down gradient wells or sampling events. In the past, a well has occasionally exhibited hydrocarbon constituents. It has been believed that these relatively low level hits are attributed to the operators oiling the pumps and bearings. The laboratory analytical reports for 2004 are provided in ATTACHMENT F.

TABLE 7-1 IRRIGATION WELL ANALYTICAL

TABLE 7-1
IRRIGATION WELL ANALYTICAL

WQCC	Date	Boron	Iron	Manganese	ANIONS (mg/L)	
					Chloride	Sulfate
RA 304	6/7/2004	0.0844	0.828	0.0216	222	1,110
RA 307	7/8/2003	BDL	0.876	0.00206	146	1,130
	8/6/2003	BDL	1.05	0.0587	152	2,360
	9/15/2003	BDL	4.2	0.0831	153	1,090
	5/12/2004	0.0795	BDL	BDL	661	1,180
	7/12/2004	0.0963	3.19	BDL	274	1,080
	8/23/2004	0.102	1.07	BDL	240	1,070
RA 313	7/17/2003	BDL	2.08	0.0432	17	534
	8/7/2003	BDL	0.81	0.0256	207	507
	6/7/2004	0.0426	0.345	BDL	16.5	534
	7/22/2004	0.0523	0.607	BDL	15.6	481
	8/3/2004	0.0448	0.498	BDL	15.7	447
RA 314	7/8/2003	BDL	0.901	BDL	225	690
	8/18/2003	BDL	1.12	0.0012	79.2	578
	6/7/2004	0.0458	0.413	BDL	238	687
	7/12/2004	0.0427	2	BDL	220	628
	8/23/2004	0.0537	0.703	BDL	232	644
	9/7/2004	0.0502	1.08	BDL	202	584
RA 1227	7/2/2003	BDL	2.02	BDL	130	1,580
	8/6/2003	BDL	1.17	0.00265	121	1,500
	6/23/2004	BDL	0.00891	BDL	128	1,350
	7/12/2004	0.254	3.66	BDL	124	1,350
	8/3/2004	0.217	0.944	BDL	120	1,350
RA 3723		BDL	BDL	BDL	BDL	
RA 3156	7/21/2003	BDL	2.15	0.0179	232	1,720
	8/29/2003	BDL	4.14	0.0238	236	1,600
	9/29/2003	BDL	6.09	0.18	236	1,650
	5/24/2004	0.111	BDL	0.0294	166	1,080
	6/28/2004	BDL	1.59	0.0097	226	1,510
	7/14/2004	0.216	BDL	0.00646	207	1,440
	8/16/2004	0.213	1.69	BDL	213	1,470
	9/16/2004	0.226	1.42	BDL	250	1,850
RA 3333	6/28/2004	0.101	1.11	BDL	168	1,040
	7/22/2004	0.11	2.48	BDL	152	954
	8/23/2004	0.113	1.31	BDL	174	1,060
RA 3353	4/24/2003	BDL	BDL	BDL	BDL	
	7/21/2003	BDL	1.5	0.00705	170	1,180
	8/18/2003	BDL	2.37	0.0121	169	1,080
	9/29/2003	BDL	1.89	0.00838	173	1,210
RA 3356	5/24/2004	0.201	1.6	0.017	216	1,420
RA 4196	7/8/2003	BDL	5.7	0.175	305	1,400
	8/18/2003	BDL	11.3	0.282	217	1,390
	9/15/2003	BDL	13.7	0.223	198	1,450
	5/12/2004	0.199	1.59	BDL	130	1,480
	7/27/2004	0.152	4.91	0.0688	198	1,260
	8/25/2004	0.177	6.36	0.0816	162	1,320
	9/7/2004	0.0675	22.8	0.336	272	1,240
	9/22/2004	0.148	4.93	0.0888	144	1,300
RA 4798	3/6/2003	BDL	BDL	BDL	BDL	BDL
	4/9/2003	BDL	BDL	BDL	BDL	BDL
	6/29/2003	BDL	BDL	BDL	BDL	BDL
	7/17/2003	BDL	1.1	0.00365	145	1,720
	8/18/2003	BDL	3.21	0.0066	138	1,560
	9/15/2003	BDL	7.46	0.0378	148	1,580
	5/12/2004	0.0844	3.54	0.0441	653	1,380
	6/28/2004	BDL	5.5	0.0173	208	1,470
	7/27/2004	0.183	14.8	0.0267	132	1,390
	8/25/2004	0.208	3.63	0.00929	133	1,380
	9/22/2004	0.171	2.06	0.0133	129	1,380
Larue	7/2/2003	BDL	2.29	0.0218	112	1,480
	8/29/2003	BDL	2.47	0.00899	122	1,430
	9/29/2003	BDL	2.32	0.0108	120	1,460
	6/23/2004	BDL	0.829	0.00918	119	1,350
	7/14/2004	0.252	BDL	0.00703	111	1,330
	8/16/2004	0.252	1.56	0.00722	108	1,350
	9/16/2004	0.248	1.73	0.00919	112	1,540

NOTES:
BDL -Below Detection Limit

ATTACHMENT A

2004 QUARTERLY RECOVERY WELL PRODUCTION REPORTS

WEEK# RECOVERY WELLS OIL DATA
1st Qrtly REPORTING PERIOD : Jan 5 March 29

WELL#	OLD RDING	NEW RDING	OIL OUTPUT	GPM	GPD
1	39365	39474	109	0	16
2	17449	17945	496	0	71
3 NA	NA	NA	NA	NA	NA
4	35060	35060	0	0	0
5	29479	31409	1930	0	276
6	70959	85563	14604	1	2086
7	67	67	0	0	0
8	56237	58062	≥ 1825	0	261
9 NA	NA	NA	NA	NA	NA
10 NA	NA	NA	NA	NA	NA
			GPM	GPM	GPD
TOTAL OIL IN PLANT IN GAL.			18964	2	2709
			GPM	GPM	GPD
BOLTON RD. WELLS OIL DATA					
11	1216	1216	0	0	0
12	15	15	0	0	0
13	9647	15429	5782	1	826
14	107106	116966	9860	1	1409
TOTAL OIL IN GAL.			15642	2	2235

TOOL PUSHERS OIL PRODUCED

15	12279	40975	28696
PUMPING TIME \			92
PUMPING TIME TOTAL			2419
TOTAL OIL IN GALLONS			44338
TOTAL OIL IN BARRELS			1056
TOTAL FLOW RATE			4 GPM 6334 GPD

CLOCK SETTING 30 MINUTES 24 TIMES DAILY

¹ Produce aproxamitely 95% water

WEEK#
1stQrtly

RECOVERY WELLS H2O DATA
REPORTING PERIOD:

Jan 5 March 29

WELL#	OLD RDING	NEW RDING	TOTAL	GPM	GPD
1	276	449	207600	20.6	29657
NEW 2	769	805	43200	4.3	6171
3	0	0	0	0.0	0
4	652	665	15600	1.5	2229
5	1086	1086	0	0.0	0
6	0	0	0	0.0	0
7	20921	20921	0	0.0	0
8	1158	1273	138000	13.7	19714
9	552	552	0	0.0	0
10	258	258	0	0.0	0
			TOTAL	GPM	GPD
			404400	40	57771

BOLTON RD. H2O DATA		TOTAL	GPM	GPD	
11	774	774	0	0.0	0
12	13038	13038	0	0.0	0
13	28564	28804	144000	14.3	20571
14	27982	28356	747963	74.2	106852
	BOLTON RD. TOTAL		891963	88	127423

TOTAL GAL.	TOTAL BBL	GPM	GPD
1296363	30866	129	185195

NOTES: Volume of water produced is estimated based on time pumped and not actual flow.

WEEK#
2nd Qrtly
2004

RECOVERY WELLS OIL DATA
REPORTING PERIOD : April 5 June 21

WELL#	OLD RDING	NEW RDING	OIL OUTPUT	GPM	GPD
1	39600	39600	0	0	0
2	18085	18085	0	0	0
3	NA	NA	NA	NA	NA
4	35060	35060	0	0	0
5	31589	31860	271	0	39
6	87233	105280	18047	2	2578
7	67	67	0	0	0
8	58124	58623	≥ 499	0	71
9	NA	NA	NA	NA	NA
10	NA	NA	NA	NA	NA
				GPM	GPD
	TOTAL OIL IN PLANT IN GAL.		18817	2	2688
				GPM	GPD
	BOLTON RD. WELLS OIL DATA				
11	1216	1216	0	0	0
12	15	15	0	0	0
13	16096	22280	6184	1	883
14	116966	123213	6247	1	892
	TOTAL OIL IN GAL.		12431	1	1776

TOOL PUSHERS OIL PRODUCED

15	40975	55829	14854
PUMPING TIME	\		92
PUMPING TIME TOTAL			2419
TOTAL OIL IN GALLONS			27285
TOTAL OIL IN BARRELS			650
TOTAL FLOW RATE			3 GPM 3898 GPD

CLOCK SETTING 30 MINUTES 24 TIMES DAILY

¹ Produce approximately 95% water

WEEK#
2nd Qrtly
2004

RECOVERY WELLS H2O DATA
REPORTING PERIOD:

April 5 June 21

WELL#	OLD RDING	NEW RDING	TOTAL	GPM	GPD
1	449	460	13200	1.3	1886
NEW 2	805	835	36000	3.6	5143
3	0	0	0	0.0	0
4	665	684	22800	2.3	3257
5	1086	1086	0	0.0	0
6	0	0	0	0.0	0
7	20921	20921	0	0.0	0
8	1273	1434	193200	19.2	27600
9	552	552	0	0.0	0
10	258	258	0	0.0	0
			TOTAL	GPM	GPD
			265200	26	37886
			BOLTON RD. H2O DATA	TOTAL	GPM
11	774	774	0	0.0	0
12	13038	13038	0	0.0	0
13	28804	28924	72000	7.1	10286
14	28356	28770	827959	82.1	118280
			BOLTON RD. TOTAL	899959	89
15	Chase RW	18167gallons			
	TOTAL GAL.	TOTAL BBL	GPM	GPD	
	1165159	27742	116	166451	

NOTES: Volume of water produced is estimated based on time pumped and not actual flow.

WEEK#
3rd Qrtly

RECOVERY WELLS OIL DATA
REPORTING PERIOD : July 5 Sept 27

WELL#	OLD RDING	NEW RDING	OIL OUTPUT	GPM	GPD
1	39600	39600	0	0	0
2	18085	18085	0	0	0
3	0	0	0	0	0
4	35060	35060	0	0	0
5	31860	32220	360	0	51
6	107332	134806	27474	3	3925
7	67	67	0	0	0
8	58828	59896	≥ 1068	0	153
9	0	0	0	0	0
10	0	0	0	0	0
TOTAL OIL IN PLANT IN GAL.			28902	3	4129
BOLTON RD. WELLS OIL DATA				GPM	GPD
11	1216	1216	0	0	0
12	15	15	0	0	0
13	24219	34303	10084	1	1441
14	124748	132735	7987	1	1141
TOTAL OIL IN GAL.			18071	2	2582
TOOL PUSHERS OIL PRODUCED					
15	56763	58546	1783		
PUMPING TIME TOTAL			2419		
TOTAL OIL IN GALLONS			48756		
TOTAL OIL IN BARRELS			1161		
TOTAL FLOW RATE			247		GPD
CLOCK SETTING		30 MINUTES 24 TIMES DAILY			
1 Produce aproximately 95% water					

WEEK#
3rd Qrtly RECOVERY WELLS H2O DATA
REPORTING PERIOD:

July 5 Sept 27

WELL#	OLD RDING	NEW RDING	TOTAL	GPM	GPD
1	462	476	16800	1.7	2400
2	840	882	50400	5.0	7200
3	0	0	0	0.0	0
4	687	948	313200	31.1	44743
5	1086	1086	0	0.0	0
6	0	0	0	0.0	0
7	20921	20921	0	0.0	0
8	1466	1663	236400	23.5	33771
9	552	552	0	0.0	0
10	258	258	0	0.0	0
			TOTAL	GPM	GPD
TOTAL H2O IN PLANT			616800	61	88114
BOLTON RD. H2O DATA			TOTAL	GPM	GPD
11	774	774	0	0.0	0
12	13038	13038	0	0.0	0
13	28948	29109	96600	9.6	13800
14	28858	29440	1163942	115.5	166277
BOLTON RD. TOTAL			1260542	125	180077
15 Chase RW	TOTAL GAL.	TOTAL BBL	GPM	GPD	
	67250	1601	7	9607	

NOTES: Volume of water produced is estimated based on time pumped and not actual flow.

WEEK# RECOVERY WELLS OIL DATA
4th Qrtly REPORTING PERIOD : Oct 4 Dec 27

WELL#	OLD RDING	NEW RDING	OIL OUTPUT	GPM	GPD
1	39600	39600	0	0	0
2	18085	18085	0	0	0
3	0	0	0	0	0
4	35060	35060	0	0	0
5	32220	32220	0	0	0
6	134806	163540	28734	3	4105
7	67	67	0	0	0
8	59896	62119	≥ 2223	0	318
9	0	0	0	0	0
10	0	0	0	0	0
11	1216	1216	0	0	0
12	15	15	0	0	0
13	34303	37380	3077	0	440
14	132735	136871	4136	0	591
15	58994	59026	32		
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
TOTAL OIL IN GAL.			38202	4	5453

TOTAL OIL IN GALLONS 38202
TOTAL OIL IN BARRELS 910

CLOCK SETTING 30 MINUTES 24 TIMES DAILY
1 Produce aproximately 95% water

WEEK#
4th Qrtly RECOVERY WELLS H2O DATA
REPORTING PERIOD: Oct 4 Dec 27

WELL#	OLD RDING	NEW RDING	TOTAL	GPM	GPD
1	476	488	14400	1.4	2057
2	882	916	40800	4.0	5829
3	0	0	0	0.0	0
4	948	969	25200	2.5	3600
5	1086	1086	0	0.0	0
6	0	0	0	0.0	0
7	20921	20921	0	0.0	0
8	1663	1839	211200	21.0	30171
9	552	552	0	0.0	0
10	258	258	0	0.0	0
11	774	774	0	0.0	0
12	13038	13038	0	0.0	0
13	29109	29242	79800	7.9	11400
14	29440	29898	915954	90.9	130851
15	0	0	0	0	0
16	0	0	0	0	0
17	0	0	0	0	0
18	0	0	0	0	0
<hr/>		R.W Chas€	32027	128	32155

NOTES: Volume of water produced is estimated based on time pumped and not actual flow.

ATTACHMENT B

**2004 ANNUAL AND SEMI-ANNUAL
LABORATORY ANALYTICAL REPORTS**



e-Lab Analytical, Inc.

10450 Stanciff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

November 08, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: Annual

Work Order : **0410241**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 3 samples on 10/21/2004 8:45:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 41.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Project: Annual
Work Order: 0410241

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0410241-01	RW-12	Water		10/20/2004 11:00	10/21/2004 08:45	<input type="checkbox"/>
0410241-02	RW-11	Water		10/20/2004 13:15	10/21/2004 08:45	<input type="checkbox"/>
0410241-03	RW-18	Water		10/20/2004 14:00	10/21/2004 08:45	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: Annual
Work Order: 0410241

Case Narrative

Batch 10847 Semivolatiles LCS/LCSD recoveries were outside of control limits for 3-Nitroaniline (52% and 52.2%). This is considered a SME (Sporadic Marginal Exceedence) which is accepted by the SOP at e-Lab Analytical.

Batch R24078 Volatiles MS/MSD was an unrelated sample.

Batch R24024 Anions MS/MSD was an unrelated sample.

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-01

Client Sample ID: RW-12
Collection Date: 10/20/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:59:17 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/1/2004 7:04:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 7:04:00 PM
Barium	0.0806	0.0100		mg/L	2	11/1/2004 7:04:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 7:04:00 PM
Boron	0.435	0.200		mg/L	10	10/30/2004 8:44:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 7:04:00 PM
Calcium	356	25.0		mg/L	50	10/30/2004 6:14:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 7:04:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 7:04:00 PM
Copper	0.00564	0.00400		mg/L	2	11/1/2004 7:04:00 PM
Iron	1.70	0.400		mg/L	2	11/1/2004 7:04:00 PM
Lead	ND	0.0100		mg/L	2	11/2/2004 3:48:00 PM
Magnesium	265	10.0		mg/L	50	10/30/2004 6:14:00 PM
Manganese	0.217	0.0500		mg/L	10	10/30/2004 8:44:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 7:04:00 PM
Nickel	ND	0.0100		mg/L	2	11/1/2004 7:04:00 PM
Potassium	ND	0.400		mg/L	2	11/2/2004 3:48:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 7:04:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 7:04:00 PM
Sodium	170	2.00		mg/L	10	11/2/2004 2:48:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 7:04:00 PM
Zinc	0.0250	0.0100		mg/L	2	11/2/2004 3:48:00 PM
SEMIVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/5/2004 4:32:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/5/2004 4:32:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
2-Methylphenol	ND	10		µg/L	1	11/5/2004 4:32:00 AM
2-Nitroaniline	ND	10		µg/L	1	11/5/2004 4:32:00 AM
2-Nitrophenol	ND	10		µg/L	1	11/5/2004 4:32:00 AM
3&4-Methylphenol	ND	10		µg/L	1	11/5/2004 4:32:00 AM
3-Nitroaniline	ND	10		µg/L	1	11/5/2004 4:32:00 AM
4-Nitroaniline	ND	10		µg/L	1	11/5/2004 4:32:00 AM
4-Nitrophenol	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Acenaphthene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Acenaphthylene	ND	10		µg/L	1	11/5/2004 4:32:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-01

Client Sample ID: RW-12
Collection Date: 10/20/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Anthracene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Benz(a)anthracene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Benzidine	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Hexachloroethane	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Isophorone	ND	10		µg/L	1	11/5/2004 4:32:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/5/2004 4:32:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/5/2004 4:32:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Naphthalene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Nitrobenzene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Pentachlorophenol	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Phenanthrene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Phenol	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Pyrene	ND	10		µg/L	1	11/5/2004 4:32:00 AM
Surr: 2,4,6-Tribromophenol	90.7	39-153		%REC	1	11/5/2004 4:32:00 AM
Surr: 2-Fluorobiphenyl	75.9	40-147		%REC	1	11/5/2004 4:32:00 AM
Surr: 2-Fluorophenol	36.6	21-110		%REC	1	11/5/2004 4:32:00 AM
Surr: 4-Terphenyl-d14	93.9	39-141		%REC	1	11/5/2004 4:32:00 AM
Surr: Nitrobenzene-d5	68.5	37-140		%REC	1	11/5/2004 4:32:00 AM
Surr: Phenol-d6	24.0	11-100		%REC	1	11/5/2004 4:32:00 AM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/22/2004 8:33:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/22/2004 8:33:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/22/2004 8:33:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/22/2004 8:33:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/22/2004 8:33:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/22/2004 8:33:00 PM
2-Butanone	ND	10	µg/L	10/22/2004 8:33:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/22/2004 8:33:00 PM
2-Hexanone	ND	10	µg/L	10/22/2004 8:33:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/22/2004 8:33:00 PM
Acetone	ND	10	µg/L	10/22/2004 8:33:00 PM
Benzene	3,400	120	µg/L	10/24/2004 4:37:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/22/2004 8:33:00 PM
Bromoform	ND	5.0	µg/L	10/22/2004 8:33:00 PM
Bromomethane	ND	5.0	µg/L	10/22/2004 8:33:00 PM
Carbon disulfide	ND	10	µg/L	10/22/2004 8:33:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/22/2004 8:33:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-01

Client Sample ID: RW-12
Collection Date: 10/20/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Chloroform	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Ethylbenzene	68	5.0		µg/L	1	10/22/2004 8:33:00 PM
m,p-Xylene	330	10		µg/L	1	10/22/2004 8:33:00 PM
Methylene chloride	ND	10		µg/L	1	10/22/2004 8:33:00 PM
Styrene	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Toluene	37	5.0		µg/L	1	10/22/2004 8:33:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 8:33:00 PM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 8:33:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 8:33:00 PM
Xylenes, Total	340	15		µg/L	1	10/22/2004 8:33:00 PM
Surr: 1,2-Dichloroethane-d4	87.7	71-126		%REC	1	10/22/2004 8:33:00 PM
Surr: 1,2-Dichloroethane-d4	80.5	71-126		%REC	25	10/24/2004 4:37:00 PM
Surr: 4-Bromofluorobenzene	90.8	74-125		%REC	1	10/22/2004 8:33:00 PM
Surr: 4-Bromofluorobenzene	88.7	74-125		%REC	25	10/24/2004 4:37:00 PM
Surr: Dibromofluoromethane	114	73-126		%REC	1	10/22/2004 8:33:00 PM
Surr: Dibromofluoromethane	84.9	73-126		%REC	25	10/24/2004 4:37:00 PM
Surr: Toluene-d8	97.2	75-125		%REC	1	10/22/2004 8:33:00 PM
Surr: Toluene-d8	90.4	75-125		%REC	25	10/24/2004 4:37:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	191	5.00	mg/L	10	10/22/2004 12:14:00 PM
Fluoride	0.840	0.100	mg/L	1	10/22/2004 11:17:00 AM
Sulfate	1,060	100	mg/L	100	10/22/2004 12:43:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	10/22/2004 11:17:00 AM
Surr: Dichloroacetic acid (surr)	99.6	80-120	%REC	1	10/22/2004 11:17:00 AM
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	10	10/22/2004 12:14:00 PM
Surr: Dichloroacetic acid (surr)	102	80-120	%REC	100	10/22/2004 12:43:00 PM

ALKALINITY**E310.1**

Analyst: HDO

Alkalinity, Bicarbonate (As CaCO ₃)	690	5.00	mg/L	1	10/31/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/31/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/31/2004
Alkalinity, Total (As CaCO ₃)	690	5.00	mg/L	1	10/31/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-01

Client Sample ID: RW-12
Collection Date: 10/20/2004 11:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Cyanide	ND	0.0200		mg/L	1	10/28/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-02

Client Sample ID: RW-11
Collection Date: 10/20/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 1:08:11 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/1/2004 7:09:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 7:09:00 PM
Barium	1.67	0.0500		mg/L	10	10/30/2004 8:49:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 7:09:00 PM
Boron	0.389	0.0400		mg/L	2	11/1/2004 7:09:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 7:09:00 PM
Calcium	242	25.0		mg/L	50	10/30/2004 6:18:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 7:09:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 7:09:00 PM
Copper	ND	0.00400		mg/L	2	11/1/2004 7:09:00 PM
Iron	8.04	0.400		mg/L	2	11/1/2004 7:09:00 PM
Lead	ND	0.0100		mg/L	2	11/2/2004 3:53:00 PM
Magnesium	120	10.0		mg/L	50	10/30/2004 6:18:00 PM
Manganese	0.520	0.0500		mg/L	10	10/30/2004 8:49:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 7:09:00 PM
Nickel	ND	0.0100		mg/L	2	11/1/2004 7:09:00 PM
Potassium	1.79	0.400		mg/L	2	11/2/2004 3:53:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 7:09:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 7:09:00 PM
Sodium	80.5	2.00		mg/L	10	11/2/2004 2:52:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 7:09:00 PM
Zinc	0.182	0.0100		mg/L	2	11/2/2004 3:53:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/5/2004 11:34:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/5/2004 11:34:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
2-Methylphenol	ND	10		µg/L	1	11/5/2004 11:34:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:34:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/5/2004 11:34:00 PM
3&4-Methylphenol	16	10		µg/L	1	11/5/2004 11:34:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:34:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:34:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Acenaphthene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Acenaphthylene	ND	10		µg/L	1	11/5/2004 11:34:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-02

Client Sample ID: RW-11
Collection Date: 10/20/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Anthracene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Benzidine	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Hexachloroethane	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Isophorone	ND	10		µg/L	1	11/5/2004 11:34:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/5/2004 11:34:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/5/2004 11:34:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Naphthalene	35	10		µg/L	1	11/5/2004 11:34:00 PM
Nitrobenzene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Phenanthrene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Phenol	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Pyrene	ND	10		µg/L	1	11/5/2004 11:34:00 PM
Surr: 2,4,6-Tribromophenol	86.5	39-153		%REC	1	11/5/2004 11:34:00 PM
Surr: 2-Fluorobiphenyl	68.1	40-147		%REC	1	11/5/2004 11:34:00 PM
Surr: 2-Fluorophenol	48.8	21-110		%REC	1	11/5/2004 11:34:00 PM
Surr: 4-Terphenyl-d14	82.8	39-141		%REC	1	11/5/2004 11:34:00 PM
Surr: Nitrobenzene-d5	73.1	37-140		%REC	1	11/5/2004 11:34:00 PM
Surr: Phenol-d6	24.4	11-100		%REC	1	11/5/2004 11:34:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	21	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	13	10	µg/L	1
Benzene	490	25	µg/L	5
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-02

Client Sample ID: RW-11
Collection Date: 10/20/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Chloroform	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Ethylbenzene	550	25		µg/L	5	10/24/2004 6:18:00 PM
m,p-Xylene	150	10		µg/L	1	10/22/2004 9:01:00 PM
Methylene chloride	ND	10		µg/L	1	10/22/2004 9:01:00 PM
Styrene	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Toluene	13	5.0		µg/L	1	10/22/2004 9:01:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 9:01:00 PM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 9:01:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 9:01:00 PM
Xylenes, Total	180	15		µg/L	1	10/22/2004 9:01:00 PM
Surr: 1,2-Dichloroethane-d4	77.9	71-126		%REC	1	10/22/2004 9:01:00 PM
Surr: 1,2-Dichloroethane-d4	82.3	71-126		%REC	5	10/24/2004 6:18:00 PM
Surr: 4-Bromofluorobenzene	100	74-125		%REC	1	10/22/2004 9:01:00 PM
Surr: 4-Bromofluorobenzene	88.8	74-125		%REC	5	10/24/2004 6:18:00 PM
Surr: Dibromofluoromethane	86.5	73-126		%REC	5	10/24/2004 6:18:00 PM
Surr: Dibromofluoromethane	89.1	73-126		%REC	1	10/22/2004 9:01:00 PM
Surr: Toluene-d8	100	75-125		%REC	1	10/22/2004 9:01:00 PM
Surr: Toluene-d8	90.4	75-125		%REC	5	10/24/2004 6:18:00 PM

ANIONS BY ION CHROMATOGRAPHY

E300

Analyst: MG

Chloride	109	2.50	mg/L	5	10/22/2004 1:40:00 PM
Fluoride	1.00	0.100	mg/L	1	10/22/2004 1:11:00 PM
Sulfate	48.6	5.00	mg/L	5	10/22/2004 1:40:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	10/22/2004 1:11:00 PM
Surr: Dichloroacetic acid (surr)	99.2	80-120	%REC	1	10/22/2004 1:11:00 PM
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	5	10/22/2004 1:40:00 PM

ALKALINITY

E310.1

Analyst: HDO

Alkalinity, Bicarbonate (As CaCO ₃)	870	5.00	mg/L	1	10/31/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/31/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/31/2004
Alkalinity, Total (As CaCO ₃)	870	5.00	mg/L	1	10/31/2004

CYANIDE, TOTAL

E335.3

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	10/28/2004
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-03

Client Sample ID: RW-18
Collection Date: 10/20/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 1:09:44 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/1/2004 7:14:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Barium	0.0185	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 7:14:00 PM
Boron	1.13	0.200		mg/L	10	10/30/2004 9:46:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 7:14:00 PM
Calcium	500	25.0		mg/L	50	10/30/2004 6:23:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 7:14:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 7:14:00 PM
Copper	0.0131	0.00400		mg/L	2	11/1/2004 7:14:00 PM
Iron	2.41	0.400		mg/L	2	11/1/2004 7:14:00 PM
Lead	ND	0.0100		mg/L	2	11/2/2004 3:58:00 PM
Magnesium	577	10.0		mg/L	50	10/30/2004 6:23:00 PM
Manganese	0.982	0.0500		mg/L	10	10/30/2004 9:46:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Nickel	0.0116	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Potassium	1.37	0.400		mg/L	2	11/2/2004 3:58:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Sodium	336	2.00		mg/L	10	10/30/2004 9:46:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Zinc	0.0280	0.0100		mg/L	2	11/2/2004 3:58:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2-Methylphenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:58:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:58:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Acenaphthene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Acenaphthylene	ND	10		µg/L	1	11/5/2004 11:58:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-03

Client Sample ID: RW-18
Collection Date: 10/20/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Anthracene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Benzidine	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Hexachloroethane	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Isophorone	ND	10		µg/L	1	11/5/2004 11:58:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/5/2004 11:58:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/5/2004 11:58:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Naphthalene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Nitrobenzene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Phenanthrene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Phenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Pyrene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Surr: 2,4,6-Tribromophenol	64.5	39-153		%REC	1	11/5/2004 11:58:00 PM
Surr: 2-Fluorobiphenyl	56.7	40-147		%REC	1	11/5/2004 11:58:00 PM
Surr: 2-Fluorophenol	32.2	21-110		%REC	1	11/5/2004 11:58:00 PM
Surr: 4-Terphenyl-d14	64.6	39-141		%REC	1	11/5/2004 11:58:00 PM
Surr: Nitrobenzene-d5	57.5	37-140		%REC	1	11/5/2004 11:58:00 PM
Surr: Phenol-d6	18.8	11-100		%REC	1	11/5/2004 11:58:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
2-Butanone	ND	10	µg/L	10/25/2004 2:39:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/25/2004 2:39:00 PM
2-Hexanone	ND	10	µg/L	10/25/2004 2:39:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/25/2004 2:39:00 PM
Acetone	ND	10	µg/L	10/25/2004 2:39:00 PM
Benzene	19	5.0	µg/L	10/25/2004 2:39:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
Bromoform	ND	5.0	µg/L	10/25/2004 2:39:00 PM
Bromomethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
Carbon disulfide	ND	10	µg/L	10/25/2004 2:39:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/25/2004 2:39:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-03

Client Sample ID: RW-18
Collection Date: 10/20/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Chloroethane	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Chloroform	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Chloromethane	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Ethylbenzene	8.1	5.0		µg/L	1	10/25/2004 2:39:00 PM
m,p-Xylene	11	10		µg/L	1	10/25/2004 2:39:00 PM
Methylene chloride	ND	10		µg/L	1	10/25/2004 2:39:00 PM
Styrene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Toluene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Vinyl acetate	ND	10		µg/L	1	10/25/2004 2:39:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/25/2004 2:39:00 PM
Xylenes, Total	ND	15		µg/L	1	10/25/2004 2:39:00 PM
Surr: 1,2-Dichloroethane-d4	106	71-126		%REC	1	10/25/2004 2:39:00 PM
Surr: 4-Bromofluorobenzene	95.7	74-125		%REC	1	10/25/2004 2:39:00 PM
Surr: Dibromofluoromethane	107	73-126		%REC	1	10/25/2004 2:39:00 PM
Surr: Toluene-d8	99.6	75-125		%REC	1	10/25/2004 2:39:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300****Analyst: MG**

Chloride	478	5.00	mg/L	10	10/22/2004 4:02:00 PM
Fluoride	1.55	0.100	mg/L	1	10/22/2004 3:05:00 PM
Sulfate	3,200	100	mg/L	100	10/22/2004 4:31:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	10/22/2004 3:05:00 PM
Surr: Dichloroacetic acid (surr)	111	80-120	%REC	1	10/22/2004 3:05:00 PM
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	10	10/22/2004 4:02:00 PM
Surr: Dichloroacetic acid (surr)	102	80-120	%REC	100	10/22/2004 4:31:00 PM

ALKALINITY**E310.1****Analyst: HDO**

Alkalinity, Bicarbonate (As CaCO ₃)	360	5.00	mg/L	1	10/31/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/31/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/31/2004
Alkalinity, Total (As CaCO ₃)	360	5.00	mg/L	1	10/31/2004

CYANIDE, TOTAL**E335.3****Analyst: LMD**

Cyanide	ND	0.0200	mg/L	1	10/28/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Nov 08 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

MLBK	Sample ID: MBLKW2-102604	Test Code: SW6020		Units: mg/L		Analysis Date: 10/27/04 14:04		
Client ID:	Run ID: ICP4500_041027A	SeqNo:	561905	Prep Date: 10/26/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	ND		0.010					
Arsenic	ND		0.0050					
Barium	ND		0.0050					
Cadmium	ND		0.0020					
Calcium	ND		0.50					
Chromium	ND		0.0050					
Cobalt	ND		0.0050					
Copper	ND		0.0050					
Iron	ND		0.20					
Lead	ND		0.0050					
Magnesium	ND		0.20					
Manganese	ND		0.0050					
Molybdenum	ND		0.0050					
Nickel	ND		0.0050					
Potassium	ND		0.20					
Selenium	ND		0.0050					
Silver	ND		0.0050					
Sodium	ND		0.20					
Vanadium	ND		0.0050					
Zinc	ND		0.0050					

MLBK	Sample ID: MBLKW2-102604	Test Code: SW6020		Units: mg/L		Analysis Date: 10/29/04 19:36		
Client ID:	Run ID: ICP4500_041029A	SeqNo:	563925	Prep Date: 10/26/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Beryllium	ND		0.0020					
Boron	ND		0.020					

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

LCS	Sample ID: MLCSW2-102604	Test Code: SW6020			Units: mg/L		Analysis Date: 10/27/04 14:09			
Client ID:		Run ID:	ICP4500_041027A	SeqNo:	561906	Prep Date:	10/26/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04112	0.010	0.05	0	82.2	79-126	0	0		
Arsenic	0.04758	0.0050	0.05	0	95.2	80-121	0	0		
Barium	0.04482	0.0050	0.05	0	89.6	79.8-119	0	0		
Cadmium	0.04839	0.0020	0.05	0	96.8	79.1-119	0	0		
Calcium	4.743	0.50	5	0	94.9	80-121	0	0		
Chromium	0.0437	0.0050	0.05	0	87.4	79.3-121	0	0		
Cobalt	0.04392	0.0050	0.05	0	87.8	82-121	0	0		
Copper	0.04325	0.0050	0.05	0	86.5	81-120	0	0		
Iron	4.634	0.20	5	0	92.7	80-120	0	0		
Lead	0.04323	0.0050	0.05	0	86.5	80-118	0	0		
Magnesium	4.78	0.20	5	0	95.6	80-120	0	0		
Manganese	0.04349	0.0050	0.05	0	87	82-119	0	0		
Molybdenum	0.04352	0.0050	0.05	0	87	81-115	0	0		
Nickel	0.04498	0.0050	0.05	0	90	82-120	0	0		
Potassium	4.685	0.20	5	0	93.7	80-120	0	0		
Selenium	0.04815	0.0050	0.05	0	96.3	79.2-118	0	0		
Silver	0.04552	0.0050	0.05	0	91	80.6-117	0	0		
Sodium	4.55	0.20	5	0	91	80.6-119	0	0		
Vanadium	0.045	0.0050	0.05	0	90	82.1-119	0	0		
Zinc	0.04493	0.0050	0.05	0	89.9	79-118	0	0		

LCS	Sample ID: MLCSW2-102604	Test Code: SW6020			Units: mg/L		Analysis Date: 10/29/04 19:40			
Client ID:		Run ID:	ICP4500_041029A	SeqNo:	563926	Prep Date:	10/26/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05309	0.0020	0.05	0	106	78.9-120	0	0		
Boron	0.5362	0.020	0.5	0	107	80-120	0	0		

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

MS	Sample ID: 0410225-08CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 10/27/04 14:31			
Client ID:		Run ID: ICP4500_041027A		SeqNo:	561911	Prep Date: 10/26/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.0456	0.010	0.05	0.0002146	90.8	79-126		0		
Arsenic	0.04741	0.0050	0.05	-0.001188	97.2	80-121		0		
Barium	0.04617	0.0050	0.05	0.0009088	90.5	79.8-119		0		
Cadmium	0.0482	0.0020	0.05	0.00005498	96.3	79.1-119		0		
Calcium	4.79	0.50	5	0.09682	93.9	80-121		0		
Chromium	0.04517	0.0050	0.05	0.0004131	89.5	79.3-121		0		
Cobalt	0.04461	0.0050	0.05	0.0004069	88.4	82-121		0		
Copper	0.04473	0.0050	0.05	0.0001013	89.3	80-120		0		
Iron	4.703	0.20	5	0.01851	93.7	80-120		0		
Lead	0.04313	0.0050	0.05	0.00009188	86.1	80-118		0		
Magnesium	4.694	0.20	5	0.04154	93	80-120		0		
Manganese	0.047	0.0050	0.05	0.00278	88.4	82-119		0		
Molybdenum	0.04295	0.0050	0.05	0.001224	83.5	81-115		0		
Nickel	0.04574	0.0050	0.05	-0.00005889	91.6	82-120		0		
Potassium	4.702	0.20	5	0.03225	93.4	80-120		0		
Selenium	0.04829	0.0050	0.05	0.00003129	96.5	79.2-118		0		
Silver	0.04553	0.0050	0.05	0.0003438	90.4	80-117		0		
Sodium	4.57	0.20	5	0.09221	89.6	80.6-119		0		
Vanadium	0.04464	0.0050	0.05	0.00001488	89.3	82.1-119		0		
Zinc	0.04492	0.0050	0.05	0.001819	86.2	79-118		0		

MS	Sample ID: 0410225-08CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 10/29/04 19:54			
Client ID:		Run ID: ICP4500_041029A		SeqNo:	563929	Prep Date: 10/26/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05312	0.0020	0.05	0.00004241	106	78.9-120		0		
Boron	0.5305	0.020	0	0.009991	0	80-120		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spikod

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

MSD	Sample ID: 0410225-08CMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 10/27/04 14:36			
Client ID:	Run ID: ICP4500_041027A		SeqNo: 561912		Prep Date: 10/26/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04562	0.010	0.05	0.0002146	90.8	79-126	0.0456	0.0439	15	
Arsenic	0.04639	0.0050	0.05	-0.001188	95.2	80-121	0.04741	2.17	15	
Barium	0.04587	0.0050	0.05	0.0009088	89.9	79.8-119	0.04617	0.652	15	
Cadmium	0.04773	0.0020	0.05	0.00005498	95.4	79.1-119	0.0482	0.98	15	
Calcium	4.776	0.50	5	0.09682	93.6	80-121	4.79	0.293	15	
Chromium	0.04451	0.0050	0.05	0.0004131	88.2	79.3-121	0.04517	1.47	15	
Cobalt	0.04453	0.0050	0.05	0.0004069	88.2	82-121	0.04461	0.179	15	
Copper	0.04403	0.0050	0.05	0.0001013	87.9	81-120	0.04473	1.58	15	
Iron	4.649	0.20	5	0.01851	92.6	80-120	4.703	1.15	15	
Lead	0.04298	0.0050	0.05	0.00009188	85.8	80-118	0.04313	0.348	15	
Magnesium	4.66	0.20	5	0.04154	92.4	80-120	4.694	0.727	15	
Manganese	0.046	0.0050	0.05	0.00278	86.4	82-119	0.047	2.15	15	
Molybdenum	0.04282	0.0050	0.05	0.001224	83.2	81-115	0.04295	0.303	15	
Nickel	0.04493	0.0050	0.05	-0.00005889	90	82-120	0.04574	1.79	15	
Potassium	4.713	0.20	5	0.03225	93.6	80-120	4.702	0.234	15	
Selenium	0.04641	0.0050	0.05	0.00003129	92.8	79.2-118	0.04829	3.97	15	
Silver	0.04434	0.0050	0.05	0.0003438	88	80-117	0.04553	2.65	15	
Sodium	4.529	0.20	5	0.09221	88.7	80.6-119	4.57	0.901	15	
Vanadium	0.04434	0.0050	0.05	0.00001488	88.7	82.1-119	0.04464	0.674	15	
Zinc	0.04556	0.0050	0.05	0.001819	87.5	79-118	0.04492	1.41	15	

MSD	Sample ID: 0410225-08CMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 10/29/04 19:59			
Client ID:	Run ID: ICP4500_041029A		SeqNo: 563930		Prep Date: 10/26/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.04994	0.0020	0.05	0.00004241	99.8	78.9-120	0.05312	6.17	15	
Boron	0.5156	0.020	0	0.009991	0	80-120	0.5305	2.85	15	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

DUP	Sample ID: 0410225-08CDUP			Test Code: SW6020	Units: mg/L		Analysis Date: 10/27/04 14:27			
Client ID:		Run ID:	ICP4500_041027A	SeqNo:	561910	Prep Date: 10/26/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010	0	0	0	0-0	0.0002146	0	25	
Arsenic	ND	0.0050	0	0	0	0-0	-0.001188	0	25	
Barium	0.0009541	0.0050	0	0	0	0-0	0.0009088	0	25	J
Cadmium	ND	0.0020	0	0	0	0-0	0.00005498	0	25	
Calcium	ND	0.50	0	0	0	0-0	0.09682	0	25	
Chromium	0.0005351	0.0050	0	0	0	0-0	0.0004131	0	25	J
Cobalt	0.0003818	0.0050	0	0	0	0-0	0.0004069	0	25	J
Copper	ND	0.0050	0	0	0	0-0	0.0001013	0	25	
Iron	ND	0.20	0	0	0	0-0	0.01851	0	25	
Lead	0.001886	0.0050	0	0	0	0-0	0.00009188	0	25	J
Magnesium	0.03988	0.20	0	0	0	0-0	0.04154	0	25	J
Manganese	0.0028	0.0050	0	0	0	0-0	0.00278	0	25	J
Molybdenum	ND	0.0050	0	0	0	0-0	0.001224	0	25	
Nickel	ND	0.0050	0	0	0	0-0	-0.00005889	0	25	
Potassium	0.02547	0.20	0	0	0	0-0	0.03225	0	25	J
Selenium	ND	0.0050	0	0	0	0-0	0.00003129	0	25	
Silver	0.0006316	0.0050	0	0	0	0-0	0.0003438	0	25	J
Sodium	0.09019	0.20	0	0	0	0-0	0.09221	0	25	J
Vanadium	ND	0.0050	0	0	0	0-0	0.00001488	0	25	
Zinc	ND	0.0050	0	0	0	0-0	0.001819	0	25	

DUP	Sample ID: 0410225-08CDUP			Test Code: SW6020	Units: mg/L		Analysis Date: 10/29/04 19:49			
Client ID:		Run ID:	ICP4500_041029A	SeqNo:	563928	Prep Date: 10/26/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	ND	0.0020	0	0	0	0-0	0.00004241	0	25	
Boron	ND	0.020	0	0	0	0-0	0.009991	0	25	

The following samples were analyzed in this batch:

0410241-01C 0410241-02C 0410241-03C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10918 InstrumentID: Mercury

MBLK Sample ID: GBLKW2-102804			Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 12:51			
Client ID:		Run ID: MERCURY_041029B		SeqNo:	563581	Prep Date: 10/28/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	ND	0.00020								
LCS Sample ID: GLCSW2-102804			Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 12:53			
Client ID:		Run ID: MERCURY_041029B		SeqNo:	563582	Prep Date: 10/28/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.0052	0.00020	0.005	0	104	83-115		0		
LCSD Sample ID: GLCSDW2-102804			Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 12:54			
Client ID:		Run ID: MERCURY_041029B		SeqNo:	563583	Prep Date: 10/28/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00534	0.00020	0.005	0	107	83-115	0.0052	2.66	20	
MS Sample ID: 0410241-01CMS			Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 13:02			
Client ID: RW-12		Run ID: MERCURY_041029B		SeqNo:	563586	Prep Date: 10/28/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00502	0.00020	0.005	0.000012	100	83-115		0		
MSD Sample ID: 0410241-01CMDS			Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 13:03			
Client ID: RW-12		Run ID: MERCURY_041029B		SeqNo:	563587	Prep Date: 10/28/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.0051	0.00020	0.005	0.000012	102	83-115	0.00502	1.58	20	
DUP Sample ID: 0410241-01CDUP			Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 13:00			
Client ID: RW-12		Run ID: MERCURY_041029B		SeqNo:	563585	Prep Date: 10/28/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	0.000012	0	20	

The following samples were analyzed in this batch:

0410241-01C	0410241-02C	0410241-03C
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ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10847 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-041025	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 13:40		
Client ID:		Run ID:	SV-3_041027A	SeqNo:	562498	Prep Date:	10/25/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
1,2,4-Trichlorobenzene	ND	10						
2,4,5-Trichlorophenol	ND	10						
2,4,6-Trichlorophenol	ND	10						
2-Methylnaphthalene	ND	10						
2-Methylphenol	ND	10						
2-Nitroaniline	ND	10						
2-Nitrophenol	ND	10						
3&4-Methylphenol	ND	10						
3-Nitroaniline	ND	10						
4-Nitroaniline	ND	10						
4-Nitrophenol	ND	10						
Acenaphthene	ND	10						
Acenaphthylene	ND	10						
Aniline	ND	10						
Anthracene	ND	10						
Benz(a)anthracene	ND	10						
Benzidine	ND	10						
Hexachloroethane	ND	10						
Indeno(1,2,3-cd)pyrene	ND	10						
Isophorone	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitrosodiphenylamine	ND	10						
Naphthalene	ND	10						
Nitrobenzene	ND	10						
Pentachlorophenol	ND	10						
Phenanthrene	ND	10						
Phenol	ND	10						
Pyrene	ND	10						
1,4-Dichlorobenzene-d4	40	0						
Acenaphthene-d10	40	0						
Chrysene-d12	40	0						
Naphthalene-d8	40	0						
Perylene-d12	40	0						
Phenanthrene-d10	40	0						
Surr: 2,4,6-Tribromophenol	89.87	10	100	0	89.9	39-153	0	
Surr: 2-Fluorobiphenyl	78.41	10	100	0	78.4	40-147	0	
Surr: 2-Fluorophenol	37.87	10	100	0	37.9	21-110	0	
Surr: 4-Terphenyl-d14	83.43	10	100	0	83.4	39-141	0	
Surr: Nitrobenzene-d5	78.27	10	100	0	78.3	37-140	0	
Surr: Phenol-d6	23.21	10	100	0	23.2	11-100	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10847 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-041025	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 14:07		
Client ID:		Run ID:	SV-3_041027A	SeqNo:	562499	Prep Date:	10/25/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
1,2,4-Trichlorobenzene	34.36	10	50	0	68.7	50-115	0	
2,4,5-Trichlorophenol	76.11	10	100	0	76.1	68-128	0	
2,4,6-Trichlorophenol	73.09	10	100	0	73.1	66-125	0	
2-Methylnaphthalene	33.29	10	50	0	66.6	47-122	0	
2-Methylphenol	58.36	10	100	0	58.4	51-115	0	
2-Nitroaniline	35.51	10	50	0	71	64-128	0	
2-Nitrophenol	74.41	10	100	0	74.4	60-119	0	
3&4-Methylphenol	80.21	10	150	0	53.5	44-115	0	
3-Nitroaniline	26.01	10	50	0	52	61-118	0	S
4-Nitroaniline	31.83	10	50	0	63.7	61-123	0	
4-Nitrophenol	34.57	10	100	0	34.6	17-100	0	
Acenaphthene	36.6	10	50	0	73.2	68-115	0	
Acenaphthylene	35.99	10	50	0	72	67-116	0	
Aniline	21.94	10	50	0	43.9	40-130	0	
Anthracene	37.69	10	50	0	75.4	70-129	0	
Benz(a)anthracene	37.4	10	50	0	74.8	55-131	0	
Benzidine	10.56	10	50	0	21.1	10-115	0	
Hexachloroethane	32.6	10	50	0	65.2	46-115	0	
Indeno(1,2,3-cd)pyrene	37.9	10	50	0	75.8	42-123	0	
Isophorone	36.85	10	50	0	73.7	63-117	0	
N-Nitrosodi-n-propylamine	36.04	10	50	0	72.1	67-115	0	
N-Nitrosodimethylamine	14.46	10	50	0	28.9	28-115	0	
N-Nitrosodiphenylamine	39.15	10	50	0	78.3	72-144	0	
Naphthalene	35.25	10	50	0	70.5	52-115	0	
Nitrobenzene	36.45	10	50	0	72.9	65-115	0	
Pentachlorophenol	70.54	10	100	0	70.5	65-123	0	
Phenanthrene	37.92	10	50	0	75.8	69-119	0	
Phenol	25.85	10	100	0	25.8	16-115	0	
Pyrene	35.39	10	50	0	70.8	51-130	0	
Surr: 2,4,6-Tribromophenol	83.67	10	100	0	83.7	39-153	0	
Surr: 2-Fluorobiphenyl	76.26	10	100	0	76.3	40-147	0	
Surr: 2-Fluorophenol	37.46	10	100	0	37.5	21-110	0	
Surr: 4-Terphenyl-d14	79.11	10	100	0	79.1	39-141	0	
Surr: Nitrobenzene-d5	76.93	10	100	0	76.9	37-140	0	
Surr: Phenol-d6	26.76	10	100	0	26.8	11-100	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10847 InstrumentID: SV-3

LCSD	Sample ID: SLCSDW1-041025	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 14:32				
Client ID:		Run ID:	SV-3_041027A	SeqNo:	562500	Prep Date:	10/25/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	35.11	10	50	0	70.2	50-115	34.36	2.17	30	
2,4,5-Trichlorophenol	72.12	10	100	0	72.1	68-128	76.11	5.38	30	
2,4,6-Trichlorophenol	75.89	10	100	0	75.9	66-125	73.09	3.75	30	
2-Methylnaphthalene	33.19	10	50	0	66.4	47-122	33.29	0.307	30	
2-Methylphenol	70.28	10	100	0	70.3	51-115	58.36	18.5	30	
2-Nitroaniline	34.79	10	50	0	69.6	64-128	35.51	2.04	30	
2-Nitrophenol	74.13	10	100	0	74.1	60-119	74.41	0.376	30	
3&4-Methylphenol	98.31	10	150	0	65.5	44-115	80.21	20.3	30	
3-Nitroaniline	26.1	10	50	0	52.2	61-118	26.01	0.35	30	S
4-Nitroaniline	32.93	10	50	0	65.9	61-123	31.83	3.41	30	
4-Nitrophenol	33.89	10	100	0	33.9	17-100	34.57	1.99	30	
Acenaphthene	37.43	10	50	0	74.9	68-115	36.6	2.22	30	
Acenaphthylene	36.48	10	50	0	73	67-116	35.99	1.36	30	
Aniline	20.77	10	50	0	41.5	40-130	21.94	5.47	30	
Anthracene	38.49	10	50	0	77	70-129	37.69	2.11	30	
Benz(a)anthracene	37.58	10	50	0	75.2	55-131	37.4	0.48	30	
Benzidine	7.619	10	50	0	15.2	10-115	10.56	0	30	J
Hexachloroethane	41.02	10	50	0	82	46-115	32.6	22.9	30	
Indeno(1,2,3-cd)pyrene	38.62	10	50	0	77.2	42-123	37.9	1.87	30	
Isophorone	37.44	10	50	0	74.9	63-117	36.85	1.58	30	
N-Nitrosodi-n-propylamine	44.51	10	50	0	89	67-115	36.04	21	30	
N-Nitrosodimethylamine	17.45	10	50	0	34.9	28-115	14.46	18.8	30	
N-Nitrosodiphenylamine	41.22	10	50	0	82.4	72-144	39.15	5.15	30	
Naphthalene	35.57	10	50	0	71.1	52-115	35.25	0.914	30	
Nitrobenzene	35.78	10	50	0	71.6	65-115	36.45	1.86	30	
Pentachlorophenol	73.26	10	100	0	73.3	65-123	70.54	3.78	30	
Phenanthrene	38.47	10	50	0	76.9	69-119	37.92	1.44	30	
Phenol	24.99	10	100	0	25	16-115	25.85	3.35	30	
Pyrene	36.15	10	50	0	72.3	51-130	35.39	2.11	30	
Surr: 2,4,6-Tribromophenol	84.77	10	100	0	84.8	39-153	83.67	1.3	30	
Surr: 2-Fluorobiphenyl	73.11	10	100	0	73.1	40-147	76.26	4.22	30	
Surr: 2-Fluorophenol	40.6	10	100	0	40.6	21-110	37.46	8.06	30	
Surr: 4-Terphenyl-d14	76.98	10	100	0	77	39-141	79.11	2.74	30	
Surr: Nitrobenzene-d5	73.47	10	100	0	73.5	37-140	76.93	4.59	30	
Surr: Phenol-d6	25.05	10	100	0	25.1	11-100	26.76	6.6	30	

The following samples were analyzed in this batch:

0410241-01E 0410241-02E

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10875 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-041026	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 19:17			
Client ID:		Run ID:	SV-3_041027D	SeqNo:	563529	Prep Date:	10/26/2004	DF:	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3&4-Methylphenol	ND	10							
3-Nitroaniline	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	80.23	10	100	0	80.2	39-153	0		
Surr: 2-Fluorobiphenyl	70.95	10	100	0	70.9	40-147	0		
Surr: 2-Fluorophenol	37.98	10	100	0	38	21-110	0		
Surr: 4-Terphenyl-d14	77.42	10	100	0	77.4	39-141	0		
Surr: Nitrobenzene-d5	70.16	10	100	0	70.2	37-140	0		
Surr: Phenol-d6	22.92	10	100	0	22.9	11-100	0		

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10875 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-041026	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 19:42		
Client ID:		Run ID:	SV-3_041027D	SeqNo:	563530	Prep Date:	10/26/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
1,2,4-Trichlorobenzene	32.61	10	50	0	65.2	50-115	0	
2,4,5-Trichlorophenol	76.04	10	100	0	76	68-128	0	
2,4,6-Trichlorophenol	73.93	10	100	0	73.9	66-125	0	
2-Methylnaphthalene	32.28	10	50	0	64.6	47-122	0	
2-Methylphenol	59.82	10	100	0	59.8	51-115	0	
2-Nitroaniline	35.95	10	50	0	71.9	64-128	0	
2-Nitrophenol	69.76	10	100	0	69.8	60-119	0	
3&4-Methylphenol	83.2	10	150	0	55.5	44-115	0	
3-Nitroaniline	31.01	10	50	0	62	61-118	0	
4-Nitroaniline	34.38	10	50	0	68.8	61-123	0	
4-Nitrophenol	34.03	10	100	0	34	17-100	0	
Acenaphthene	37.1	10	50	0	74.2	68-115	0	
Acenaphthylene	35.57	10	50	0	71.1	67-116	0	
Aniline	28.54	10	50	0	57.1	40-130	0	
Anthracene	38.89	10	50	0	77.8	70-129	0	
Benz(a)anthracene	36.82	10	50	0	73.6	55-131	0	
Benzidine	17.37	10	50	0	34.7	10-115	0	
Hexachloroethane	31.89	10	50	0	63.8	46-115	0	
Indeno(1,2,3-cd)pyrene	35.69	10	50	0	71.4	42-123	0	
Isophorone	35.03	10	50	0	70.1	63-117	0	
N-Nitrosodi-n-propylamine	35.24	10	50	0	70.5	67-115	0	
N-Nitrosodimethylamine	18.06	10	50	0	36.1	28-115	0	
N-Nitrosodiphenylamine	41.12	10	50	0	82.2	72-144	0	
Naphthalene	34.53	10	50	0	69.1	52-115	0	
Nitrobenzene	34.76	10	50	0	69.5	65-115	0	
Pentachlorophenol	65.81	10	100	0	65.8	65-123	0	
Phenanthrene	38.77	10	50	0	77.5	69-119	0	
Phenol	27.92	10	100	0	27.9	16-115	0	
Pyrene	35.63	10	50	0	71.3	51-130	0	
Surr: 2,4,6-Tribromophenol	83.35	10	100	0	83.4	39-153	0	
Surr: 2-Fluorobiphenyl	72.57	10	100	0	72.6	40-147	0	
Surr: 2-Fluorophenol	41.87	10	100	0	41.9	21-110	0	
Surr: 4-Terphenyl-d14	77.07	10	100	0	77.1	39-141	0	
Surr: Nitrobenzene-d5	70.33	10	100	0	70.3	37-140	0	
Surr: Phenol-d6	28.11	10	100	0	28.1	11-100	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10875 InstrumentID: SV-3

LCSD		Sample ID: SLCSDW1-041026		Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 20:07		
Client ID:		Run ID: SV-3_041027D		SeqNo: 563531		Prep Date: 10/26/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	33.49	10	50	0	67	50-115	32.61	2.67	30	
2,4,5-Trichlorophenol	71.62	10	100	0	71.6	68-128	76.04	5.97	30	
2,4,6-Trichlorophenol	74.13	10	100	0	74.1	66-125	73.93	0.267	30	
2-Methylnaphthalene	32.38	10	50	0	64.8	47-122	32.28	0.304	30	
2-Methylphenol	59.55	10	100	0	59.6	51-115	59.82	0.442	30	
2-Nitroaniline	35.2	10	50	0	70.4	64-128	35.95	2.12	30	
2-Nitrophenol	70.56	10	100	0	70.6	60-119	69.76	1.14	30	
3&4-Methylphenol	82.49	10	150	0	55	44-115	83.2	0.854	30	
3-Nitroaniline	31.61	10	50	0	63.2	61-118	31.01	1.92	30	
4-Nitroaniline	35.65	10	50	0	71.3	61-123	34.38	3.61	30	
4-Nitrophenol	35.68	10	100	0	35.7	17-100	34.03	4.71	30	
Acenaphthene	36.61	10	50	0	73.2	68-115	37.1	1.34	30	
Acenaphthylene	35.96	10	50	0	71.9	67-116	35.57	1.09	30	
Aniline	31.11	10	50	0	62.2	40-130	28.54	8.62	30	
Anthracene	38.45	10	50	0	76.9	70-129	38.89	1.13	30	
Benz(a)anthracene	36.79	10	50	0	73.6	55-131	36.82	0.0829	30	
Benzidine	16.64	10	50	0	33.3	10-115	17.37	4.27	30	
Hexachloroethane	32.7	10	50	0	65.4	46-115	31.89	2.53	30	
Indeno(1,2,3-cd)pyrene	36.8	10	50	0	73.6	42-123	35.69	3.07	30	
Isophorone	34.65	10	50	0	69.3	63-117	35.03	1.1	30	
N-Nitrosodi-n-propylamine	34.75	10	50	0	69.5	67-115	35.24	1.41	30	
N-Nitrosodimethylamine	16.91	10	50	0	33.8	28-115	18.06	6.55	30	
N-Nitrosodiphenylamine	40.81	10	50	0	81.6	72-144	41.12	0.736	30	
Naphthalene	34.24	10	50	0	68.5	52-115	34.53	0.85	30	
Nitrobenzene	34.02	10	50	0	68	65-115	34.76	2.16	30	
Pentachlorophenol	68.09	10	100	0	68.1	65-123	65.81	3.41	30	
Phenanthrene	38.72	10	50	0	77.4	69-119	38.77	0.119	30	
Phenol	28.39	10	100	0	28.4	16-115	27.92	1.69	30	
Pyrene	36.13	10	50	0	72.3	51-130	35.63	1.39	30	
Surr: 2,4,6-Tribromophenol	82.4	10	100	0	82.4	39-153	83.35	1.15	30	
Surr: 2-Fluorobiphenyl	70.72	10	100	0	70.7	40-147	72.57	2.59	30	
Surr: 2-Fluorophenol	40.91	10	100	0	40.9	21-110	41.87	2.31	30	
Surr: 4-Terphenyl-d14	76.95	10	100	0	76.9	39-141	77.07	0.159	30	
Surr: Nitrobenzene-d5	67.95	10	100	0	67.9	37-140	70.33	3.45	30	
Surr: Phenol-d6	27.34	10	100	0	27.3	11-100	28.11	2.77	30	

The following samples were analyzed in this batch:

0410241-03E

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24028 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-1022	Test Code: SW8260		Units: µg/L		Analysis Date: 10/22/04 14:06				
Client ID:	Run ID: VOA1_041022A	SeqNo:	559635	Prep Date:	DF:	1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	45.82	5.0	50	0	91.6	71-126		0		
Surr: 4-Bromofluorobenzene	50.03	5.0	50	0	100	74-125		0		
Surr: Dibromofluoromethane	46.65	5.0	50	0	93.3	73-126		0		
Surr: Toluene-d8	48.36	5.0	50	0	96.7	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24028 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1022	Test Code: SW8260		Units: µg/L		Analysis Date: 10/22/04 12:43		
Client ID:	Run ID: VOA1_041022A	SeqNo:	559634	Prep Date:		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	48.58	5.0	50	0	97.2	75.2-120	0	0
1,1,2,2-Tetrachloroethane	50.18	5.0	50	0	100	72.4-121	0	0
1,1,2-Trichloroethane	52.57	5.0	50	0	105	80-120	0	0
1,1-Dichloroethane	44.85	5.0	50	0	89.7	76.9-120	0	0
1,1-Dichloroethene	47.03	5.0	50	0	94.1	72.6-123	0	0
1,2-Dichloroethane	46.6	5.0	50	0	93.2	80-120	0	0
2-Butanone	92.52	10	100	0	92.5	69-131	0	0
2-Chloroethyl vinyl ether	100.9	10	100	0	101	60-135	0	0
2-Hexanone	102.2	10	100	0	102	55.6-126	0	0
4-Methyl-2-pentanone	102.7	10	100	0	103	67.4-121	0	0
Acetone	87.93	10	100	0	87.9	64.4-140	0	0
Benzene	48.38	5.0	50	0	96.8	80-120	0	0
Bromodichloromethane	50.05	5.0	50	0	100	80-120	0	0
Bromoform	47.72	5.0	50	0	95.4	77.9-121	0	0
Bromomethane	40.19	5.0	50	0	80.4	63.3-137	0	0
Carbon disulfide	95.13	10	100	0	95.1	74.1-123	0	0
Carbon tetrachloride	50.08	5.0	50	0	100	74.7-120	0	0
Chlorobenzene	49.95	5.0	50	0	99.9	80-120	0	0
Chloroethane	48.36	5.0	50	0	96.7	74.7-126	0	0
Chloroform	47.04	5.0	50	0	94.1	80-120	0	0
Chloromethane	44.32	5.0	50	0	88.6	64.5-132	0	0
cis-1,3-Dichloropropene	52.63	5.0	50	0	105	80-120	0	0
Dibromochloromethane	48.36	5.0	50	0	96.7	80-120	0	0
Ethylbenzene	49.23	5.0	50	0	98.5	80-120	0	0
m,p-Xylene	100.5	10	100	0	101	80-120	0	0
Methylene chloride	46.51	10	50	0	93	76.2-120	0	0
Styrene	50.5	5.0	50	0	101	80-120	0	0
Tetrachloroethene	50.47	5.0	50	0	101	68.5-130	0	0
Toluene	50.57	5.0	50	0	101	80-120	0	0
trans-1,3-Dichloropropene	53.12	5.0	50	0	106	80-120	0	0
Trichloroethene	48.48	5.0	50	0	97	78.9-120	0	0
Vinyl acetate	107.5	10	100	0	108	62.4-133	0	0
Vinyl chloride	46.92	2.0	50	0	93.8	72.7-128	0	0
Xylenes, Total	150.7	15	150	0	100	80-120	0	0
Surr: 1,2-Dichloroethane-d4	41.45	5.0	50	0	82.9	71-126	0	0
Surr: 4-Bromofluorobenzene	48.87	5.0	50	0	97.7	74-125	0	0
Surr: Dibromofluoromethane	43.6	5.0	50	0	87.2	73-126	0	0
Surr: Toluene-d8	49.7	5.0	50	0	99.4	75-125	0	0

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24028 InstrumentID: VOA1

MS	Sample ID: 0410257-01CMS			Test Code: SW8260	Units: µg/L		Analysis Date: 10/22/04 15:29			
Client ID:		Run ID: VOA1_041022A		SeqNo: 559637	Prep Date:		DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1024	100	1000	0	102	75.2-120	0	0	0	
1,1,2,2-Tetrachloroethane	973.1	100	1000	0	97.3	72.4-121	0	0	0	
1,1,2-Trichloroethane	997	100	1000	0	99.7	80-120	0	0	0	
1,1-Dichloroethane	913.7	100	1000	0	91.4	76.9-120	0	0	0	
1,1-Dichloroethene	912.8	100	1000	0	91.3	72.6-123	0	0	0	
1,2-Dichloroethane	972.9	100	1000	0	97.3	80-120	0	0	0	
2-Butanone	1780	200	2000	113.8	83.3	69-131	0	0	0	
2-Chloroethyl vinyl ether	1924	200	2000	0	96.2	60-135	0	0	0	
2-Hexanone	1933	200	2000	0	96.6	55.6-126	0	0	0	
4-Methyl-2-pentanone	2005	200	2000	0	100	67.4-121	0	0	0	
Acetone	1596	200	2000	0	79.8	64.4-140	0	0	0	
Benzene	967.2	100	1000	49.63	91.8	80-120	0	0	0	
Bromodichloromethane	1024	100	1000	0	102	80-120	0	0	0	
Bromoform	980.7	100	1000	0	98.1	77.9-121	0	0	0	
Bromomethane	787.3	100	1000	0	78.7	63.3-137	0	0	0	
Carbon disulfide	1939	200	2000	0	96.9	74.1-123	0	0	0	
Carbon tetrachloride	1004	100	1000	0	100	74.7-120	0	0	0	
Chlorobenzene	956.2	100	1000	0	95.6	80-120	0	0	0	
Chloroethane	904.6	100	1000	0	90.5	74.7-126	0	0	0	
Chloroform	967.6	100	1000	0	96.8	80-120	0	0	0	
Chloromethane	778.3	100	1000	0	77.8	64.5-132	0	0	0	
cis-1,3-Dichloropropene	972.7	100	1000	0	97.3	80-120	0	0	0	
Dibromochloromethane	971.6	100	1000	0	97.2	80-120	0	0	0	
Ethylbenzene	3108	100	1000	2225	88.3	80-120	0	0	0	
m,p-Xylene	2460	200	2000	588.1	93.6	80-120	0	0	0	
Methylene chloride	939.8	200	1000	44.38	89.5	76.2-120	0	0	0	
Styrene	1023	100	1000	0	102	80-120	0	0	0	
Tetrachloroethene	972.4	100	1000	0	97.2	68.5-130	0	0	0	
Toluene	978.8	100	1000	11.65	96.7	80-120	0	0	0	
trans-1,3-Dichloropropene	990.1	100	1000	0	99	80-120	0	0	0	
Trichloroethene	895.4	100	1000	0	89.5	78.9-120	0	0	0	
Vinyl acetate	2282	200	2000	0	114	62.4-133	0	0	0	
Vinyl chloride	863.6	40	1000	0	86.4	72.7-128	0	0	0	
Xylenes, Total	3487	300	3000	602	96.2	80-120	0	0	0	
Surr: 1,2-Dichloroethane-d4	892.1	100	1000	0	89.2	71-126	0	0	0	
Surr: 4-Bromofluorobenzene	967.1	100	1000	0	96.7	74-125	0	0	0	
Surr: Dibromofluoromethane	945.4	100	1000	0	94.5	73-126	0	0	0	
Surr: Toluene-d8	982.9	100	1000	0	98.3	75-125	0	0	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24028 InstrumentID: VOA1

MSD	Sample ID: 0410257-01CMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 10/22/04 15:57				
Client ID:	Run ID: VOA1_041022A	SeqNo:	559638	Prep Date:	DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	994.8	100	1000	0	99.5	75.2-120	1024	2.89	20	
1,1,2,2-Tetrachloroethane	1018	100	1000	0	102	72.4-121	973.1	4.5	20	
1,1,2-Trichloroethane	1001	100	1000	0	100	80-120	997	0.384	20	
1,1-Dichloroethane	913.1	100	1000	0	91.3	76.9-120	913.7	0.0698	20	
1,1-Dichloroethene	904.8	100	1000	0	90.5	72.6-123	912.8	0.881	20	
1,2-Dichloroethane	990.7	100	1000	0	99.1	80-120	972.9	1.81	20	
2-Butanone	1858	200	2000	113.8	87.2	69-131	1780	4.28	20	
2-Chloroethyl vinyl ether	2035	200	2000	0	102	60-135	1924	5.62	20	
2-Hexanone	1980	200	2000	0	99	55.6-126	1933	2.42	20	
4-Methyl-2-pentanone	2127	200	2000	0	106	67.4-121	2005	5.92	20	
Acetone	1757	200	2000	0	87.9	64.4-140	1596	9.62	20	
Benzene	995.4	100	1000	49.63	94.6	80-120	967.2	2.87	20	
Bromodichloromethane	1052	100	1000	0	105	80-120	1024	2.67	20	
Bromoform	959.6	100	1000	0	96	77.9-121	980.7	2.17	20	
Bromomethane	813.2	100	1000	0	81.3	63.3-137	787.3	3.24	20	
Carbon disulfide	1954	200	2000	0	97.7	74.1-123	1939	0.769	20	
Carbon tetrachloride	1030	100	1000	0	103	74.7-120	1004	2.58	20	
Chlorobenzene	984.8	100	1000	0	98.5	80-120	956.2	2.94	20	
Chloroethane	989.1	100	1000	0	98.9	74.7-126	904.6	8.93	20	
Chloroform	974.5	100	1000	0	97.4	80-120	967.6	0.708	20	
Chloromethane	850.8	100	1000	0	85.1	64.5-132	778.3	8.89	20	
cis-1,3-Dichloropropene	1027	100	1000	0	103	80-120	972.7	5.38	20	
Dibromochloromethane	975.3	100	1000	0	97.5	80-120	971.6	0.381	20	
Ethylbenzene	3086	100	1000	2225	86.1	80-120	3108	0.706	20	
m,p-Xylene	2516	200	2000	588.1	96.4	80-120	2460	2.28	20	
Methylene chloride	984.7	200	1000	44.38	94	76.2-120	939.8	4.67	20	
Styrene	987.2	100	1000	0	98.7	80-120	1023	3.6	20	
Tetrachloroethene	975.8	100	1000	0	97.6	68.5-130	972.4	0.344	20	
Toluene	965.9	100	1000	11.65	95.4	80-120	978.8	1.32	20	
trans-1,3-Dichloropropene	1036	100	1000	0	104	80-120	990.1	4.57	20	
Trichloroethene	954.4	100	1000	0	95.4	78.9-120	895.4	6.38	20	
Vinyl acetate	2303	200	2000	0	115	62.4-133	2282	0.895	20	
Vinyl chloride	933.4	40	1000	0	93.3	72.7-128	863.6	7.76	20	
Xylenes, Total	3519	300	3000	602	97.2	80-120	3487	0.912	20	
Surr: 1,2-Dichloroethane-d4	881.4	100	1000	0	88.1	71-126	892.1	1.21	20	
Surr: 4-Bromofluorobenzene	987.9	100	1000	0	98.8	74-125	967.1	2.13	20	
Surr: Dibromofluoromethane	902.1	100	1000	0	90.2	73-126	945.4	4.68	20	
Surr: Toluene-d8	980.1	100	1000	0	98	75-125	982.9	0.281	20	

The following samples were analyzed in this batch:

0410241-01A 0410241-02A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24032 InstrumentID: VOA2

MBLK Sample ID: VBLKW-1024		Test Code: SW8260		Units: µg/L		Analysis Date: 10/24/04 11:58			
Client ID: Run ID: VOA2_041024A		SeqNo: 559723		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Benzene	ND	5.0							
Ethylbenzene	ND	5.0							
Toluene	ND	5.0							
Surr: 1,2-Dichloroethane-d4	44.54	5.0	50	0	89.1	71-126	0		
Surr: 4-Bromofluorobenzene	43.11	5.0	50	0	86.2	74-125	0		
Surr: Dibromofluoromethane	45.92	5.0	50	0	91.8	73-126	0		
Surr: Toluene-d8	44.5	5.0	50	0	89	75-125	0		

LCS Sample ID: VLCSW-1024		Test Code: SW8260		Units: µg/L		Analysis Date: 10/24/04 11:07			
Client ID: Run ID: VOA2_041024A		SeqNo: 559722		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Benzene	47.83	5.0	50	0	95.7	80-120	0		
Ethylbenzene	48.43	5.0	50	0	96.9	80-120	0		
Toluene	46.89	5.0	50	0	93.8	80-120	0		
Surr: 1,2-Dichloroethane-d4	40.22	5.0	50	0	80.4	71-126	0		
Surr: 4-Bromofluorobenzene	44.71	5.0	50	0	89.4	74-125	0		
Surr: Dibromofluoromethane	41.98	5.0	50	0	84	73-126	0		
Surr: Toluene-d8	44.82	5.0	50	0	89.6	75-125	0		

MS Sample ID: 0410241-01AMS		Test Code: SW8260		Units: µg/L		Analysis Date: 10/24/04 17:02			
Client ID: RW-12		Run ID: VOA2_041024A		SeqNo: 559734		Prep Date:		DF: 25	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Benzene	4651	120	1250	3383	101	80-120	0		
Ethylbenzene	1284	120	1250	61.09	97.9	80-120	0		
Toluene	1256	120	1250	50	96.5	80-120	0		
Surr: 1,2-Dichloroethane-d4	1020	120	1250	0	81.6	71-126	0		
Surr: 4-Bromofluorobenzene	1109	120	1250	0	88.7	74-125	0		
Surr: Dibromofluoromethane	1076	120	1250	0	86	73-126	0		
Surr: Toluene-d8	1127	120	1250	0	90.2	75-125	0		

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24032 InstrumentID: VOA2

MSD	Sample ID: 0410241-01AMSD		Test Code: SW8260		Units: µg/L		Analysis Date: 10/24/04 17:28			
Client ID:	RW-12	Run ID:	VOA2_041024A	SeqNo:	559735	Prep Date:		DF:	25	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	4589	120	1250	3383	96.5	80-120	4651	1.34	20	
Ethylbenzene	1264	120	1250	61.09	96.2	80-120	1284	1.61	20	
Toluene	1235	120	1250	50	94.8	80-120	1256	1.66	20	
Surr: 1,2-Dichloroethane-d4	1024	120	1250	0	81.9	71-126	1020	0.366	20	
Surr: 4-Bromofluorobenzene	1107	120	1250	0	88.6	74-125	1109	0.137	20	
Surr: Dibromofluoromethane	1068	120	1250	0	85.5	73-126	1076	0.686	20	
Surr: Toluene-d8	1126	120	1250	0	90.1	75-125	1127	0.0855	20	

The following samples were analyzed in this batch:

0410241-01A 0410241-02A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24078 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-1025	Test Code: SW8260		Units: µg/L		Analysis Date: 10/25/04 13:41		
Client ID:	Run ID: VOA1_041025A	SeqNo:	560907	Prep Date:		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	46.26	5.0	50	0	92.5	71-126	0	
Surr: 4-Bromofluorobenzene	47.78	5.0	50	0	95.6	74-125	0	
Surr: Dibromofluoromethane	46.35	5.0	50	0	92.7	73-126	0	
Surr: Toluene-d8	46.22	5.0	50	0	92.4	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24078 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1025	Test Code: SW8260		Units: µg/L		Analysis Date: 10/25/04 12:33			
Client ID:		Run ID:	VOA1_041025A	SeqNo:	560906	Prep Date:	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
1,1,1-Trichloroethane	53.47	5.0	50	0	107	75.2-120	0		
1,1,2,2-Tetrachloroethane	45.08	5.0	50	0	90.2	72.4-121	0		
1,1,2-Trichloroethane	49.25	5.0	50	0	98.5	80-120	0		
1,1-Dichloroethane	44.46	5.0	50	0	88.9	76.9-120	0		
1,1-Dichloroethene	50.89	5.0	50	0	102	72.6-123	0		
1,2-Dichloroethane	51.1	5.0	50	0	102	80-120	0		
2-Butanone	81.7	10	100	0	81.7	69-131	0		
2-Chloroethyl vinyl ether	99.1	10	100	0	99.1	60-135	0		
2-Hexanone	95.23	10	100	0	95.2	55.6-126	0		
4-Methyl-2-pentanone	93.67	10	100	0	93.7	67.4-121	0		
Acetone	94.52	10	100	0	94.5	64.4-140	0		
Benzene	50.84	5.0	50	0	102	80-120	0		
Bromodichloromethane	56.64	5.0	50	0	113	80-120	0		
Bromoform	49.85	5.0	50	0	99.7	77.9-121	0		
Bromomethane	44.5	5.0	50	0	89	63.3-137	0		
Carbon disulfide	103	10	100	0	103	74.1-123	0		
Carbon tetrachloride	57.74	5.0	50	0	115	74.7-120	0		
Chlorobenzene	50.28	5.0	50	0	101	80-120	0		
Chloroethane	50.63	5.0	50	0	101	74.7-126	0		
Chloroform	51.89	5.0	50	0	104	80-120	0		
Chloromethane	43.71	5.0	50	0	87.4	64.5-132	0		
cis-1,3-Dichloropropene	54.81	5.0	50	0	110	80-120	0		
Dibromochloromethane	50.59	5.0	50	0	101	80-120	0		
Ethylbenzene	50.25	5.0	50	0	100	80-120	0		
m,p-Xylene	102.9	10	100	0	103	80-120	0		
Methylene chloride	50.15	10	50	0	100	76.2-120	0		
Styrene	51.08	5.0	50	0	102	80-120	0		
Tetrachloroethene	51.29	5.0	50	0	103	68.5-130	0		
Toluene	49.34	5.0	50	0	98.7	80-120	0		
trans-1,3-Dichloropropene	56.31	5.0	50	0	113	80-120	0		
Trichloroethene	50.48	5.0	50	0	101	78.9-120	0		
Vinyl acetate	106.7	10	100	0	107	62.4-133	0		
Vinyl chloride	46.08	2.0	50	0	92.2	72.7-128	0		
Xylenes, Total	153.6	15	150	0	102	80-120	0		
Surr: 1,2-Dichloroethane-d4	47.61	5.0	50	0	95.2	71-126	0		
Surr: 4-Bromofluorobenzene	50.34	5.0	50	0	101	74-125	0		
Surr: Dibromofluoromethane	48.53	5.0	50	0	97.1	73-126	0		
Surr: Toluene-d8	47.58	5.0	50	0	95.2	75-125	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24078 InstrumentID: VOA1

MS	Sample ID: 0410254-06AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 10/25/04 15:07			
Client ID:	Run ID: VOA1_041025A	SeqNo:	560910	Prep Date:		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	52.97	5.0	50	0	106	75.2-120	0		
1,1,2,2-Tetrachloroethane	44.8	5.0	50	0	89.6	72.4-121	0		
1,1,2-Trichloroethane	46.52	5.0	50	0	93	80-120	0		
1,1-Dichloroethane	46.81	5.0	50	0	93.6	76.9-120	0		
1,1-Dichloroethene	45.58	5.0	50	0	91.2	72.6-123	0		
1,2-Dichloroethane	50.62	5.0	50	0	101	80-120	0		
2-Butanone	74.83	10	100	0	74.8	69-131	0		
2-Chloroethyl vinyl ether	3.373	10	100	0	3.37	60-135	0		JS
2-Hexanone	80.25	10	100	0	80.2	55.6-126	0		
4-Methyl-2-pentanone	88.07	10	100	0	88.1	67.4-121	0		
Acetone	72.26	10	100	0	72.3	64.4-140	0		
Benzene	48.27	5.0	50	0	96.5	80-120	0		
Bromodichloromethane	55.68	5.0	50	0	111	80-120	0		
Bromoform	48.52	5.0	50	0	97	77.9-121	0		
Bromomethane	35.08	5.0	50	0	70.2	63.3-137	0		
Carbon disulfide	101.4	10	100	0	101	74.1-123	0		
Carbon tetrachloride	55.52	5.0	50	0	111	74.7-120	0		
Chlorobenzene	48.81	5.0	50	0	97.6	80-120	0		
Chloroethane	48.08	5.0	50	0	96.2	74.7-126	0		
Chloroform	50.45	5.0	50	0	101	80-120	0		
Chloromethane	38.96	5.0	50	0	77.9	64.5-132	0		
cis-1,3-Dichloropropene	52.48	5.0	50	0	105	80-120	0		
Dibromochloromethane	49.78	5.0	50	0	99.6	80-120	0		
Ethylbenzene	46.73	5.0	50	0	93.5	80-120	0		
m,p-Xylene	95.92	10	100	0	95.9	80-120	0		
Methylene chloride	48.82	10	50	0	97.6	76.2-120	0		
Styrene	46.76	5.0	50	0	93.5	80-120	0		
Tetrachloroethene	47.97	5.0	50	0	95.9	68.5-130	0		
Toluene	47.7	5.0	50	0	95.4	80-120	0		
trans-1,3-Dichloropropene	53.68	5.0	50	0	107	80-120	0		
Trichloroethene	49.59	5.0	50	0	99.2	78.9-120	0		
Vinyl acetate	108.7	10	100	0	109	62.4-133	0		
Vinyl chloride	44.39	2.0	50	0	88.8	72.7-128	0		
Xylenes, Total	142.7	15	150	0	95.1	80-120	0		
Surr: 1,2-Dichloroethane-d4	47.55	5.0	50	0	95.1	71-126	0		
Surr: 4-Bromofluorobenzene	47.4	5.0	50	0	94.8	74-125	0		
Surr: Dibromofluoromethane	47.24	5.0	50	0	94.5	73-126	0		
Surr: Toluene-d8	46.95	5.0	50	0	93.9	75-125	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24078 InstrumentID: VOA1

MSD	Sample ID: 0410254-06AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 10/25/04 15:34			
Client ID:	Run ID: VOA1_041025A	SeqNo:	560911	Prep Date:		DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	51.6	5.0	50	0	103	75.2-120	52.97	2.61	20
1,1,2,2-Tetrachloroethane	44.96	5.0	50	0	89.9	72.4-121	44.8	0.344	20
1,1,2-Trichloroethane	47.59	5.0	50	0	95.2	80-120	46.52	2.28	20
1,1-Dichloroethane	44.34	5.0	50	0	88.7	76.9-120	46.81	5.4	20
1,1-Dichloroethene	47.48	5.0	50	0	95	72.6-123	45.58	4.07	20
1,2-Dichloroethane	48.65	5.0	50	0	97.3	80-120	50.62	3.97	20
2-Butanone	73.69	10	100	0	73.7	69-131	74.83	1.54	20
2-Chloroethyl vinyl ether	ND	10	100	0	0	60-135	3.373	0	20 S
2-Hexanone	91.5	10	100	0	91.5	55.6-126	80.25	13.1	20
4-Methyl-2-pentanone	91.82	10	100	0	91.8	67.4-121	88.07	4.17	20
Acetone	70.79	10	100	0	70.8	64.4-140	72.26	2.06	20
Benzene	48.6	5.0	50	0	97.2	80-120	48.27	0.673	20
Bromodichloromethane	54.09	5.0	50	0	108	80-120	55.68	2.9	20
Bromoform	49.34	5.0	50	0	98.7	77.9-121	48.52	1.69	20
Bromomethane	37.22	5.0	50	0	74.4	63.3-137	35.08	5.9	20
Carbon disulfide	99.92	10	100	0	99.9	74.1-123	101.4	1.44	20
Carbon tetrachloride	52.37	5.0	50	0	105	74.7-120	55.52	5.85	20
Chlorobenzene	49.3	5.0	50	0	98.6	80-120	48.81	1	20
Chloroethane	50.18	5.0	50	0	100	74.7-126	48.08	4.28	20
Chloroform	49.11	5.0	50	0	98.2	80-120	50.45	2.7	20
Chloromethane	38.79	5.0	50	0	77.6	64.5-132	38.96	0.445	20
cis-1,3-Dichloropropene	52.07	5.0	50	0	104	80-120	52.48	0.777	20
Dibromochloromethane	51.2	5.0	50	0	102	80-120	49.78	2.79	20
Ethylbenzene	50.22	5.0	50	0	100	80-120	46.73	7.21	20
m,p-Xylene	100.9	10	100	0	101	80-120	95.92	5.05	20
Methylene chloride	49.21	10	50	0	98.4	76.2-120	48.82	0.792	20
Styrene	50.43	5.0	50	0	101	80-120	46.76	7.54	20
Tetrachloroethene	50.34	5.0	50	0	101	68.5-130	47.97	4.82	20
Toluene	49.65	5.0	50	0	99.3	80-120	47.7	4.01	20
trans-1,3-Dichloropropene	53.79	5.0	50	0	108	80-120	53.68	0.213	20
Trichloroethene	47.21	5.0	50	0	94.4	78.9-120	49.59	4.9	20
Vinyl acetate	108.7	10	100	0	109	62.4-133	108.7	0.0253	20
Vinyl chloride	44.7	2.0	50	0	89.4	72.7-128	44.39	0.684	20
Xylenes, Total	151.1	15	150	0	101	80-120	142.7	5.7	20
Surr: 1,2-Dichloroethane-d4	46.17	5.0	50	0	92.3	71-126	47.55	2.96	20
Surr: 4-Bromofluorobenzene	46.94	5.0	50	0	93.9	74-125	47.4	0.979	20
Surr: Dibromofluoromethane	47.66	5.0	50	0	95.3	73-126	47.24	0.89	20
Surr: Toluene-d8	47.52	5.0	50	0	95	75-125	46.95	1.21	20

The following samples were analyzed in this batch:

0410241-03A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24024 InstrumentID: IC201

MBLK Sample ID: WBLKW1-102104 Test Code: E300 Units: mg/L Analysis Date: 10/21/04 21:02

Client ID: Run ID: IC201_041021A SeqNo: 559447 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.2	0.10	5	0	104	80-120	0			

LCS Sample ID: WLCSW1-102104 Test Code: E300 Units: mg/L Analysis Date: 10/21/04 21:30

Client ID: Run ID: IC201_041021A SeqNo: 559448 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.99	0.50	10	0	89.9	80-120	0			
Fluoride	2.04	0.10	2	0	102	80-120	0			
Sulfate	9.79	1.0	10	0	97.9	80-120	0			
Nitrate/Nitrite (as N)	3.9	0.10	0	0	0	80-120	0			
Surr: Dichloroacetic acid (surr)	5.1	0.10	5	0	102	80-120	0			

LCSD Sample ID: WLCSDW1-10210 Test Code: E300 Units: mg/L Analysis Date: 10/21/04 21:59

Client ID: Run ID: IC201_041021A SeqNo: 559449 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.02	0.50	10	0	90.2	80-120	8.99	0.333	20	
Fluoride	2.09	0.10	2	0	104	80-120	2.04	2.42	20	
Sulfate	9.81	1.0	10	0	98.1	80-120	9.79	0.204	20	
Nitrate/Nitrite (as N)	3.9	0.10	0	0	0	80-120	3.9	0	20	
Surr: Dichloroacetic acid (surr)	5.16	0.10	5	0	103	80-120	5.1	1.17	20	

MS Sample ID: 0410256-07BMS Test Code: E300 Units: mg/L Analysis Date: 10/21/04 23:24

Client ID: Run ID: IC201_041021A SeqNo: 559452 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2249	0.50	10	2283	-336	75-125	0			SEO
Fluoride	1.83	0.10	2	0.18	82.5	75-125	0			
Sulfate	6114	1.0	10	6248	-1350	75-125	0			SEO
Nitrate/Nitrite (as N)	4.13	0.10	4	0	103	75-125	0			
Surr: Dichloroacetic acid (surr)	5.01	0.10	5	0	100	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: **R24024** InstrumentID: **IC201**

MSD Sample ID: **0410256-07BMSD** Test Code: **E300** Units: **mg/L** Analysis Date: **10/21/04 23:53**

Client ID: Run ID: **IC201_041021A** SeqNo: **559453** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2248	0.50	10	2283	-345	75-125	2249	0.0396	20	SEO
Fluoride	1.83	0.10	2	0.18	82.5	75-125	1.83	0	20	
Sulfate	6147	1.0	10	6248	-1020	75-125	6114	0.534	20	SEO
Nitrate/Nitrite (as N)	3.96	0.10	4	0	99	75-125	4.13	4.2	20	
Surr: Dichloroacetic acid (surr)	5.22	0.10	5	0	104	80-120	5.01	4.11	20	

DUP Sample ID: **0410256-07BDUP** Test Code: **E300** Units: **mg/L** Analysis Date: **10/21/04 22:56**

Client ID: Run ID: **IC201_041021A** SeqNo: **559451** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2286	0.50	0	0	0	0-0	2283	0.135	20	E
Fluoride	0.17	0.10	0	0	0	0-0	0.18	5.71	20	
Sulfate	6222	1.0	0	0	0	0-0	6248	0.432	20	E
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	4.87	0.10	5	0	97.4	80-120	4.81	1.24	20	

DUP Sample ID: **0410241-03BDUP** Test Code: **E300** Units: **mg/L** Analysis Date: **10/22/04 16:59**

Client ID: **RW-18** Run ID: **IC201_041021A** SeqNo: **559465** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	352	50	0	0	0	0-0	352	0	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	3198	100	0	0	0	0-0	3199	0.0313	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	529	10	500	0	106	80-120	511	3.46	20	

DUP Sample ID: **0410256-06BDUP** Test Code: **E300** Units: **mg/L** Analysis Date: **10/22/04 9:23**

Client ID: Run ID: **IC201_041021A** SeqNo: **559477** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	638.6	0.50	0	0	0	0-0	639.6	0.153	20	E
Fluoride	0.28	0.10	0	0	0	0-0	0.28	0	20	
Sulfate	5845	1.0	0	0	0	0-0	5865	0.348	20	E
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	5.09	0.10	5	0	102	80-120	4.87	4.42	20	

The following samples were analyzed in this batch:

0410241-01B 0410241-02B 0410241-03B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24162 InstrumentID: UV-2101PC

MBLK		Sample ID: WBLKW1-102604		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo:	563051	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020								
LCS		Sample ID: WLCSW1-102604		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo:	563052	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.193	0.020	0.2	0	96.5	80-120		0		
MS		Sample ID: 0410252-26BMS		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo:	563067	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.1969	0.020	0.2	0.0039	96.5	75-125		0		
MSD		Sample ID: 0410252-26BMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo:	563068	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.1989	0.020	0.2	0.0039	97.5	75-125	0.1969	1.01	25	
DUP		Sample ID: 0410252-26BDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo:	563070	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.0037	0.020	0	0	0	0-0	0.0039	0	20	J

The following samples were analyzed in this batch:

0410241-01D 0410241-02D 0410241-03D

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: R24239 InstrumentID: WetChem

MBLK Sample ID: WBLKW1-103104		Test Code: E310.1		Units: mg/L		Analysis Date: 10/31/04 0:00				
Client ID:	Run ID: WETCHEM_041031A	SeqNo:	565034	Prep Date:	DF:	1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								
LCS Sample ID: WLCW1-103104			Test Code: E310.1		Units: mg/L		Analysis Date: 10/31/04 0:00			
Client ID:	Run ID: WETCHEM_041031A	SeqNo:	565035	Prep Date:	DF:	1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	1	0	0-0		0		
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0		0		
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0		0		
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120		0		
DUP Sample ID: 0410229-18BDUP			Test Code: E310.1		Units: mg/L		Analysis Date: 10/31/04 0:00			
Client ID:	Run ID: WETCHEM_041031A	SeqNo:	565074	Prep Date:	DF:	1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	680.2	5.0	0	0	0	0-0	680.2	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	680.2	5.0	0	0	0	0-0	680.2	0	20	

The following samples were analyzed in this batch:

0410241-01B 0410241-02B 0410241-03B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range



e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Chain of Custody Form

Page 1

of _____

Customer Information

Purchase Order	Project Name	Aman	
Work Order	Project Number	A	
Company Name	Bill To Company	B	
Sand Report To	Invoice Attn:	C	
Address	Street:	D	
City/State/Zip	City/State/Zip:	E	
Phone	Phone:	F	
Fax	Fax:	G	
e-Mail Address			

Project Information

No.	Sample Description	Date	Time	Matrix	# Bottles	Pres. Key Numbers	A	B	C	D	E	F	G	H	I	J	Hold
1	Ph - 12	10/20/04	11:00	L	8	X	X										
2	Ph - 11			L315	1												
3	Ph - 18			L400	1	X											
4																	
5																	
6																	
7																	
8																	
9																	
10																	

e-Lab Project Manager

Project/METHOD REQUEST for Analysis
Analyst: <u>Aman</u>
Address:
City/State/Zip:
Phone:
Fax:

e-Lab Work Order#:

041024

Shipment Method:

FedEx

Required Turnaround Time: (Check Box)

Other
 10 Wk Days
 5 Wk Days
 3 Wk Days
 2 Wk Days
 124 Hours

Results Due Date:

10/21/04

Received by:

John

Reinquired by:

John

Logged by (Laboratory):

John

QC Package: (Check Box Below)

Standard QC
 TRP LRC
 TRP Level IV
 SW846 Methods/CIP like
 Other

Notes:

Specs

Preservative Key:

1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂SO₃ 6-NaHSO₃ 7-OH₂ 8-^oC

e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 10/21/2004 8:45:00 AM

Work Order Number 0410241

Received by: RNG

Checklist completed by F.H.

Signature

Date

10/21/04

Reviewed by MM

Initials

10/22/04

Date

Matrix: Water

Carrier name FedEx

- | | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp:Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <u>2.2C</u> | <u>002</u> | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

Adjusted? _____ Checked by _____

Login Notes: No Trip Blank was in cooler.

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-03

Client Sample ID: RW-18
Collection Date: 10/20/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
Mercury	ND	0.000200		mg/L	1	10/29/2004 1:09:44 PM
ICP-METALS, TOTAL						
Aluminum	ND	0.0200		mg/L	2	11/1/2004 7:14:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Barium	0.0185	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 7:14:00 PM
Boron	1.13	0.200		mg/L	10	10/30/2004 9:46:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 7:14:00 PM
Calcium	500	25.0		mg/L	50	10/30/2004 6:23:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 7:14:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 7:14:00 PM
Copper	0.0131	0.00400		mg/L	2	11/1/2004 7:14:00 PM
Iron	2.41	0.400		mg/L	2	11/1/2004 7:14:00 PM
Lead	ND	0.0100		mg/L	2	11/2/2004 3:58:00 PM
Magnesium	577	10.0		mg/L	50	10/30/2004 6:23:00 PM
Manganese	0.982	0.0500		mg/L	10	10/30/2004 9:46:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Nickel	0.0116	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Potassium	1.37	0.400		mg/L	2	11/2/2004 3:58:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Sodium	336	2.00		mg/L	10	10/30/2004 9:46:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 7:14:00 PM
Zinc	0.0280	0.0100		mg/L	2	11/2/2004 3:58:00 PM
SEMIVOLATILE ORGANICS BY GC/MS						
			SW8270		Prep Date: 10/26/2004	Analyst: HV
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2-Methylphenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:58:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:58:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:58:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Acenaphthene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Acenaphthylene	ND	10		µg/L	1	11/5/2004 11:58:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
 Work Order: 0410241
 Project: Annual
 Lab ID: 0410241-03

Client Sample ID: RW-18
 Collection Date: 10/20/2004 2:00:00 PM
 Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Anthracene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Benzidine	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Hexachloroethane	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Isophorone	ND	10		µg/L	1	11/5/2004 11:58:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/5/2004 11:58:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/5/2004 11:58:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Naphthalene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Nitrobenzene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Phenanthrene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Phenol	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Pyrene	ND	10		µg/L	1	11/5/2004 11:58:00 PM
Surr: 2,4,6-Tribromophenol	64.5	39-153		%REC	1	11/5/2004 11:58:00 PM
Surr: 2-Fluorobiphenyl	56.7	40-147		%REC	1	11/5/2004 11:58:00 PM
Surr: 2-Fluorophenol	32.2	21-110		%REC	1	11/5/2004 11:58:00 PM
Surr: 4-Terphenyl-d14	64.6	39-141		%REC	1	11/5/2004 11:58:00 PM
Surr: Nitrobenzene-d5	57.5	37-140		%REC	1	11/5/2004 11:58:00 PM
Surr: Phenol-d6	18.8	11-100		%REC	1	11/5/2004 11:58:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/25/2004 2:39:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
2-Butanone	ND	10	µg/L	10/25/2004 2:39:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/25/2004 2:39:00 PM
2-Hexanone	ND	10	µg/L	10/25/2004 2:39:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/25/2004 2:39:00 PM
Acetone	ND	10	µg/L	10/25/2004 2:39:00 PM
Benzene	19	5.0	µg/L	10/25/2004 2:39:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
Bromoform	ND	5.0	µg/L	10/25/2004 2:39:00 PM
Bromomethane	ND	5.0	µg/L	10/25/2004 2:39:00 PM
Carbon disulfide	ND	10	µg/L	10/25/2004 2:39:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/25/2004 2:39:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 AR Page 9 of 10

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual
Lab ID: 0410241-03

Client Sample ID: RW-18
Collection Date: 10/20/2004 2:00:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Chloroethane	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Chloroform	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Chloromethane	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Ethylbenzene	8.1	5.0		µg/L	1	10/25/2004 2:39:00 PM
m,p-Xylene	11	10		µg/L	1	10/25/2004 2:39:00 PM
Methylene chloride	ND	10		µg/L	1	10/25/2004 2:39:00 PM
Styrene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Toluene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/25/2004 2:39:00 PM
Vinyl acetate	ND	10		µg/L	1	10/25/2004 2:39:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/25/2004 2:39:00 PM
Xylenes, Total	ND	15		µg/L	1	10/25/2004 2:39:00 PM
Surr: 1,2-Dichloroethane-d4	106	71-126		%REC	1	10/25/2004 2:39:00 PM
Surr: 4-Bromofluorobenzene	95.7	74-125		%REC	1	10/25/2004 2:39:00 PM
Surr: Dibromofluoromethane	107	73-126		%REC	1	10/25/2004 2:39:00 PM
Surr: Toluene-d8	99.6	75-125		%REC	1	10/25/2004 2:39:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	478	5.00		mg/L	10	10/22/2004 4:02:00 PM
Fluoride	1.55	0.100		mg/L	1	10/22/2004 3:05:00 PM
Sulfate	3,200	100		mg/L	100	10/22/2004 4:31:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	10/22/2004 3:05:00 PM
Surr: Dichloroacetic acid (surr)	111	80-120		%REC	1	10/22/2004 3:05:00 PM
Surr: Dichloroacetic acid (surr)	101	80-120		%REC	10	10/22/2004 4:02:00 PM
Surr: Dichloroacetic acid (surr)	102	80-120		%REC	100	10/22/2004 4:31:00 PM
ALKALINITY						
			E310.1			Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	360	5.00		mg/L	1	10/31/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	10/31/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	10/31/2004
Alkalinity, Total (As CaCO ₃)	360	5.00		mg/L	1	10/31/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	10/28/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Nov 08 2004

CLIENT: Navajo Refining Company
Work Order: 0410241
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

MBLK Sample ID: MBLKW2-102604 Test Code: SW6020 Units: mg/L Analysis Date: 10/27/04 14:04

Client ID: Run ID: ICP4500_041027A SeqNo: 561905 Prep Date: 10/26/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010								
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Cadmium	ND	0.0020								
Calcium	ND	0.50								
Chromium	ND	0.0050								
Cobalt	ND	0.0050								
Copper	ND	0.0050								
Iron	ND	0.20								
Lead	ND	0.0050								
Magnesium	ND	0.20								
Manganese	ND	0.0050								
Molybdenum	ND	0.0050								
Nickel	ND	0.0050								
Potassium	ND	0.20								
Selenium	ND	0.0050								
Silver	ND	0.0050								
Sodium	ND	0.20								
Vanadium	ND	0.0050								
Zinc	ND	0.0050								

MBLK Sample ID: MBLKW2-102604 Test Code: SW6020 Units: mg/L Analysis Date: 10/29/04 19:36

Client ID: Run ID: ICP4500_041029A SeqNo: 563925 Prep Date: 10/26/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	ND	0.0020								
Boron	ND	0.020								

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range



e-Lab Analytical, Inc.

10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

November 08, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: Annual

Work Order : **0410220**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 9 samples on 10/20/2004 8:50:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 64.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Project: Annual
Work Order: 0410220

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0410220-01	KWB-3R	Water		10/19/2004 10:15	10/20/2004 08:50	<input type="checkbox"/>
0410220-02	KWB-9	Water		10/19/2004 10:40	10/20/2004 08:50	<input type="checkbox"/>
0410220-03	MW-28	Water		10/19/2004 11:00	10/20/2004 08:50	<input type="checkbox"/>
0410220-04	MW-48	Water		10/19/2004 11:45	10/20/2004 08:50	<input type="checkbox"/>
0410220-05	RW-3	Water		10/19/2004 13:00	10/20/2004 08:50	<input type="checkbox"/>
0410220-06	RW-9	Water		10/19/2004 13:15	10/20/2004 08:50	<input type="checkbox"/>
0410220-07	RW-10	Water		10/19/2004 13:45	10/20/2004 08:50	<input type="checkbox"/>
0410220-08	RW-16	Water		10/19/2004 14:15	10/20/2004 08:50	<input type="checkbox"/>
0410220-09	RW-17	Water		10/19/2004 14:45	10/20/2004 08:50	<input type="checkbox"/>

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Project: Annual
Work Order: 0410220

Case Narrative

Batch 10847 Semivolatiles LCS/LCSD recoveries were outside of control limits for 3-Nitroaniline (52% and 52.2%). This is considered a SME (Sporadic Marginal Exceedence) which is accepted by the SOP at e-Lab Analytical.

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-01

Client Sample ID: KWB-3R
Collection Date: 10/19/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 11:57:07 AM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0433	0.0200		mg/L	2	11/1/2004 5:43:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Barium	0.0167	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 5:43:00 PM
Boron	0.445	0.200		mg/L	10	10/30/2004 7:25:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 5:43:00 PM
Calcium	741	25.0		mg/L	50	10/30/2004 4:57:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 5:43:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 5:43:00 PM
Copper	0.00812	0.00400		mg/L	2	11/1/2004 5:43:00 PM
Iron	1.94	0.400		mg/L	2	11/1/2004 5:43:00 PM
Lead	ND	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Magnesium	317	10.0		mg/L	50	10/30/2004 4:57:00 PM
Manganese	ND	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Nickel	0.0119	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Potassium	0.580	0.400		mg/L	2	11/1/2004 5:43:00 PM
Selenium	0.0311	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Sodium	464	10.0		mg/L	50	10/30/2004 4:57:00 PM
Vanadium	0.0158	0.0100		mg/L	2	11/1/2004 5:43:00 PM
Zinc	0.0144	0.0100		mg/L	2	11/2/2004 4:21:00 PM
SEMIVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/4/2004 6:13:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/4/2004 6:13:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
2-Methylphenol	ND	10		µg/L	1	11/4/2004 6:13:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/4/2004 6:13:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/4/2004 6:13:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/4/2004 6:13:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/4/2004 6:13:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/4/2004 6:13:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Acenaphthene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Acenaphthylene	ND	10		µg/L	1	11/4/2004 6:13:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-01

Client Sample ID: KWB-3R
Collection Date: 10/19/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Anthracene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Benzidine	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Hexachloroethane	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Isophorone	ND	10		µg/L	1	11/4/2004 6:13:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/4/2004 6:13:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/4/2004 6:13:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Naphthalene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Nitrobenzene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Phenanthrene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Phenol	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Pyrene	ND	10		µg/L	1	11/4/2004 6:13:00 PM
Surr: 2,4,6-Tribromophenol	107	39-153		%REC	1	11/4/2004 6:13:00 PM
Surr: 2-Fluorobiphenyl	87.9	40-147		%REC	1	11/4/2004 6:13:00 PM
Surr: 2-Fluorophenol	46.2	21-110		%REC	1	11/4/2004 6:13:00 PM
Surr: 4-Terphenyl-d14	100	39-141		%REC	1	11/4/2004 6:13:00 PM
Surr: Nitrobenzene-d5	86.0	37-140		%REC	1	11/4/2004 6:13:00 PM
Surr: Phenol-d6	30.2	11-100		%REC	1	11/4/2004 6:13:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	ND	5.0	µg/L	1
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

AR Page 2 of 30

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-01

Client Sample ID: KWB-3R
Collection Date: 10/19/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Chloroform	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Ethylbenzene	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
m,p-Xylene	ND	10		µg/L	1	10/22/2004 12:13:00 AM
Methylene chloride	ND	10		µg/L	1	10/22/2004 12:13:00 AM
Styrene	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Toluene	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 12:13:00 AM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 12:13:00 AM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 12:13:00 AM
Xylenes, Total	ND	15		µg/L	1	10/22/2004 12:13:00 AM
Surr: 1,2-Dichloroethane-d4	92.0	71-126		%REC	1	10/22/2004 12:13:00 AM
Surr: 4-Bromofluorobenzene	98.6	74-125		%REC	1	10/22/2004 12:13:00 AM
Surr: Dibromofluoromethane	93.0	73-126		%REC	1	10/22/2004 12:13:00 AM
Surr: Toluene-d8	93.8	75-125		%REC	1	10/22/2004 12:13:00 AM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	449	10.0	mg/L	20
Fluoride	0.410	0.100	mg/L	1
Sulfate	2,680	100	mg/L	100
Nitrate/Nitrite (as N)	12.1	0.500	mg/L	5
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	117	80-120	%REC	20
Surr: Dichloroacetic acid (surr)	118	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: HDO
Alkalinity, Bicarbonate (As CaCO3)	380	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO3)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO3)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO3)	380	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-02

Client Sample ID: KWB-9
Collection Date: 10/19/2004 10:40:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:06:21 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/1/2004 5:48:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Barium	0.0111	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 5:48:00 PM
Boron	0.435	0.200		mg/L	10	10/30/2004 7:30:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 5:48:00 PM
Calcium	464	25.0		mg/L	50	10/30/2004 5:02:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 5:48:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 5:48:00 PM
Copper	0.00465	0.00400		mg/L	2	11/1/2004 5:48:00 PM
Iron	1.19	0.400		mg/L	2	11/1/2004 5:48:00 PM
Lead	ND	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Magnesium	166	2.00		mg/L	10	10/30/2004 7:30:00 PM
Manganese	0.0194	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Nickel	ND	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Potassium	0.652	0.400		mg/L	2	11/1/2004 5:48:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Sodium	134	2.00		mg/L	10	10/30/2004 7:30:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 5:48:00 PM
Zinc	ND	0.0100		mg/L	2	11/2/2004 4:25:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/5/2004 10:45:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/5/2004 10:45:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
2-Methylphenol	ND	10		µg/L	1	11/5/2004 10:45:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/5/2004 10:45:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/5/2004 10:45:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/5/2004 10:45:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/5/2004 10:45:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/5/2004 10:45:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Acenaphthene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Acenaphthylene	ND	10		µg/L	1	11/5/2004 10:45:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-02

Client Sample ID: KWB-9
Collection Date: 10/19/2004 10:40:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Anthracene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Benzidine	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Hexachloroethane	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Isophorone	ND	10		µg/L	1	11/5/2004 10:45:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/5/2004 10:45:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/5/2004 10:45:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Naphthalene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Nitrobenzene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Phenanthrene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Phenol	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Pyrene	ND	10		µg/L	1	11/5/2004 10:45:00 PM
Surr: 2,4,6-Tribromophenol	78.2	39-153		%REC	1	11/5/2004 10:45:00 PM
Surr: 2-Fluorobiphenyl	75.1	40-147		%REC	1	11/5/2004 10:45:00 PM
Surr: 2-Fluorophenol	39.1	21-110		%REC	1	11/5/2004 10:45:00 PM
Surr: 4-Terphenyl-d14	81.6	39-141		%REC	1	11/5/2004 10:45:00 PM
Surr: Nitrobenzene-d5	75.1	37-140		%REC	1	11/5/2004 10:45:00 PM
Surr: Phenol-d6	22.6	11-100		%REC	1	11/5/2004 10:45:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/22/2004 12:41:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/22/2004 12:41:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/22/2004 12:41:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	10/22/2004 12:41:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	10/22/2004 12:41:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	10/22/2004 12:41:00 AM
2-Butanone	ND	10	µg/L	10/22/2004 12:41:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/22/2004 12:41:00 AM
2-Hexanone	ND	10	µg/L	10/22/2004 12:41:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	10/22/2004 12:41:00 AM
Acetone	ND	10	µg/L	10/22/2004 12:41:00 AM
Benzene	ND	5.0	µg/L	10/22/2004 12:41:00 AM
Bromodichloromethane	ND	5.0	µg/L	10/22/2004 12:41:00 AM
Bromoform	ND	5.0	µg/L	10/22/2004 12:41:00 AM
Bromomethane	ND	5.0	µg/L	10/22/2004 12:41:00 AM
Carbon disulfide	ND	10	µg/L	10/22/2004 12:41:00 AM
Carbon tetrachloride	ND	5.0	µg/L	10/22/2004 12:41:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-02

Client Sample ID: KWB-9
Collection Date: 10/19/2004 10:40:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Chloroform	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Ethylbenzene	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
m,p-Xylene	ND	10		µg/L	1	10/22/2004 12:41:00 AM
Methylene chloride	ND	10		µg/L	1	10/22/2004 12:41:00 AM
Styrene	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Toluene	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 12:41:00 AM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 12:41:00 AM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 12:41:00 AM
Xylenes, Total	ND	15		µg/L	1	10/22/2004 12:41:00 AM
Surr: 1,2-Dichloroethane-d4	94.3	71-126		%REC	1	10/22/2004 12:41:00 AM
Surr: 4-Bromofluorobenzene	93.5	74-125		%REC	1	10/22/2004 12:41:00 AM
Surr: Dibromofluoromethane	92.6	73-126		%REC	1	10/22/2004 12:41:00 AM
Surr: Toluene-d8	95.2	75-125		%REC	1	10/22/2004 12:41:00 AM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	227	25.0	mg/L	50
Fluoride	0.540	0.100	mg/L	1
Sulfate	1,290	50.0	mg/L	50
Nitrate/Nitrite (as N)	0.680	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	107	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	115	80-120	%REC	50

ALKALINITY

		E310.1		Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	470	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	470	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-03

Client Sample ID: MW-28
Collection Date: 10/19/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:07:51 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0237	0.0200		mg/L	2	11/1/2004 5:53:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Barium	0.0298	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 5:53:00 PM
Boron	1.45	0.200		mg/L	10	10/30/2004 7:35:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 5:53:00 PM
Calcium	387	25.0		mg/L	50	10/30/2004 5:06:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 5:53:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 5:53:00 PM
Copper	0.00644	0.00400		mg/L	2	11/1/2004 5:53:00 PM
Iron	1.13	0.400		mg/L	2	11/1/2004 5:53:00 PM
Lead	0.0125	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Magnesium	285	10.0		mg/L	50	10/30/2004 5:06:00 PM
Manganese	0.0688	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Nickel	ND	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Potassium	0.573	0.400		mg/L	2	11/1/2004 5:53:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Sodium	95.0	2.00		mg/L	10	10/30/2004 7:35:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 5:53:00 PM
Zinc	0.0231	0.0100		mg/L	2	11/2/2004 4:30:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	11/4/2004 7:02:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	11/4/2004 7:02:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
2-Methylphenol	ND	11		µg/L	1	11/4/2004 7:02:00 PM
2-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:02:00 PM
2-Nitrophenol	ND	11		µg/L	1	11/4/2004 7:02:00 PM
3&4-Methylphenol	ND	11		µg/L	1	11/4/2004 7:02:00 PM
3-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:02:00 PM
4-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:02:00 PM
4-Nitrophenol	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Acenaphthene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Acenaphthylene	ND	11		µg/L	1	11/4/2004 7:02:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-03

Client Sample ID: MW-28
Collection Date: 10/19/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Anthracene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Benz(a)anthracene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Benzidine	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Hexachloroethane	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Isophorone	ND	11		µg/L	1	11/4/2004 7:02:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	11/4/2004 7:02:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	11/4/2004 7:02:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Naphthalene	24	11		µg/L	1	11/4/2004 7:02:00 PM
Nitrobenzene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Pentachlorophenol	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Phenanthrene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Phenol	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Pyrene	ND	11		µg/L	1	11/4/2004 7:02:00 PM
Surr: 2,4,6-Tribromophenol	91.0	39-153		%REC	1	11/4/2004 7:02:00 PM
Surr: 2-Fluorobiphenyl	72.3	40-147		%REC	1	11/4/2004 7:02:00 PM
Surr: 2-Fluorophenol	39.0	21-110		%REC	1	11/4/2004 7:02:00 PM
Surr: 4-Terphenyl-d14	76.8	39-141		%REC	1	11/4/2004 7:02:00 PM
Surr: Nitrobenzene-d5	73.1	37-140		%REC	1	11/4/2004 7:02:00 PM
Surr: Phenol-d6	26.8	11-100		%REC	1	11/4/2004 7:02:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	690	25	µg/L	5
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-03

Client Sample ID: MW-28
Collection Date: 10/19/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Chloroform	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Ethylbenzene	55	5.0		µg/L	1	10/22/2004 1:08:00 AM
m,p-Xylene	170	10		µg/L	1	10/22/2004 1:08:00 AM
Methylene chloride	ND	10		µg/L	1	10/22/2004 1:08:00 AM
Styrene	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Toluene	21	5.0		µg/L	1	10/22/2004 1:08:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 1:08:00 AM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 1:08:00 AM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 1:08:00 AM
Xylenes, Total	180	15		µg/L	1	10/22/2004 1:08:00 AM
Surr: 1,2-Dichloroethane-d4	108	71-126		%REC	1	10/22/2004 1:08:00 AM
Surr: 1,2-Dichloroethane-d4	84.8	71-126		%REC	5	10/22/2004 5:21:00 PM
Surr: 4-Bromofluorobenzene	96.3	74-125		%REC	1	10/22/2004 1:08:00 AM
Surr: 4-Bromofluorobenzene	102	74-125		%REC	5	10/22/2004 5:21:00 PM
Surr: Dibromofluoromethane	110	73-126		%REC	1	10/22/2004 1:08:00 AM
Surr: Dibromofluoromethane	90.3	73-126		%REC	5	10/22/2004 5:21:00 PM
Surr: Toluene-d8	101	75-125		%REC	1	10/22/2004 1:08:00 AM
Surr: Toluene-d8	99.6	75-125		%REC	5	10/22/2004 5:21:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300****Analyst: MG**

Chloride	163	5.00	mg/L	10	10/21/2004 1:33:00 AM
Fluoride	1.46	0.100	mg/L	1	10/21/2004 12:36:00 AM
Sulfate	978	100	mg/L	100	10/21/2004 2:01:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	10/21/2004 12:36:00 AM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	1	10/21/2004 12:36:00 AM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	10	10/21/2004 1:33:00 AM
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	100	10/21/2004 2:01:00 AM

ALKALINITY**E310.1****Analyst: HDO**

Alkalinity, Bicarbonate (As CaCO3)	800	5.00	mg/L	1	10/28/2004
Alkalinity, Carbonate (As CaCO3)	ND	5.00	mg/L	1	10/28/2004
Alkalinity, Hydroxide (As CaCO3)	ND	5.00	mg/L	1	10/28/2004
Alkalinity, Total (As CaCO3)	800	5.00	mg/L	1	10/28/2004

CYANIDE, TOTAL**E335.3****Analyst: LMD**

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analytic detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-03

Client Sample ID: MW-28
Collection Date: 10/19/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Cyanide	ND	0.0200		mg/L	1	10/28/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-04

Client Sample ID: MW-48
Collection Date: 10/19/2004 11:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:09:21 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0263	0.0200		mg/L	2	11/1/2004 5:57:00 PM
Arsenic	0.0404	0.0100		mg/L	2	11/1/2004 5:57:00 PM
Barium	0.105	0.0100		mg/L	2	11/1/2004 5:57:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 5:57:00 PM
Boron	0.769	0.200		mg/L	10	10/30/2004 7:40:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 5:57:00 PM
Calcium	153	5.00		mg/L	10	10/30/2004 7:40:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 5:57:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 5:57:00 PM
Copper	ND	0.00400		mg/L	2	11/1/2004 5:57:00 PM
Iron	0.881	0.400		mg/L	2	11/1/2004 5:57:00 PM
Lead	ND	0.0100		mg/L	2	11/1/2004 5:57:00 PM
Magnesium	132	2.00		mg/L	10	10/30/2004 7:40:00 PM
Manganese	2.01	0.250		mg/L	50	10/30/2004 5:11:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 5:57:00 PM
Nickel	0.0109	0.0100		mg/L	2	11/1/2004 5:57:00 PM
Potassium	0.558	0.400		mg/L	2	11/1/2004 5:57:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 5:57:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 5:57:00 PM
Sodium	436	10.0		mg/L	50	10/30/2004 5:11:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 5:57:00 PM
Zinc	ND	0.0100		mg/L	2	11/2/2004 6:35:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	11		µg/L	1	11/4/2004 7:27:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	11/4/2004 7:27:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	11/4/2004 7:27:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	11/4/2004 7:27:00 PM
2-Methylphenol	ND	11		µg/L	1	11/4/2004 7:27:00 PM
2-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:27:00 PM
2-Nitrophenol	ND	11		µg/L	1	11/4/2004 7:27:00 PM
3&4-Methylphenol	ND	11		µg/L	1	11/4/2004 7:27:00 PM
3-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:27:00 PM
4-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:27:00 PM
4-Nitrophenol	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Acenaphthene	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Acenaphthylene	ND	11		µg/L	1	11/4/2004 7:27:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-04

Client Sample ID: MW-48
Collection Date: 10/19/2004 11:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Anthracene	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Benz(a)anthracene	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Benzidine	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Hexachloroethane	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Isophorone	ND	11		µg/L	1	11/4/2004 7:27:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	11/4/2004 7:27:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	11/4/2004 7:27:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Naphthalene	19	11		µg/L	1	11/4/2004 7:27:00 PM
Nitrobenzene	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Pentachlorophenol	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Phenanthrone	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Phenol	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Pyrene	ND	11		µg/L	1	11/4/2004 7:27:00 PM
Surr: 2,4,6-Tribromophenol	90.8	39-153		%REC	1	11/4/2004 7:27:00 PM
Surr: 2-Fluorobiphenyl	76.8	40-147		%REC	1	11/4/2004 7:27:00 PM
Surr: 2-Fluorophenol	36.0	21-110		%REC	1	11/4/2004 7:27:00 PM
Surr: 4-Terphenyl-d14	78.8	39-141		%REC	1	11/4/2004 7:27:00 PM
Surr: Nitrobenzene-d5	74.0	37-140		%REC	1	11/4/2004 7:27:00 PM
Surr: Phenol-d6	26.4	11-100		%REC	1	11/4/2004 7:27:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/22/2004 9:28:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/22/2004 9:28:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/22/2004 9:28:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/22/2004 9:28:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/22/2004 9:28:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/22/2004 9:28:00 PM
2-Butanone	ND	10	µg/L	10/22/2004 9:28:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/22/2004 9:28:00 PM
2-Hexanone	ND	10	µg/L	10/22/2004 9:28:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/22/2004 9:28:00 PM
Acetone	ND	10	µg/L	10/22/2004 9:28:00 PM
Benzene	1,400	50	µg/L	10/24/2004 6:44:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/22/2004 9:28:00 PM
Bromoform	ND	5.0	µg/L	10/22/2004 9:28:00 PM
Bromomethane	ND	5.0	µg/L	10/22/2004 9:28:00 PM
Carbon disulfide	ND	10	µg/L	10/22/2004 9:28:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/22/2004 9:28:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-04

Client Sample ID: MW-48
Collection Date: 10/19/2004 11:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Chloroform	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Ethylbenzene	24	5.0		µg/L	1	10/22/2004 9:28:00 PM
m,p-Xylene	66	10		µg/L	1	10/22/2004 9:28:00 PM
Methylene chloride	ND	10		µg/L	1	10/22/2004 9:28:00 PM
Styrene	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Toluene	36	5.0		µg/L	1	10/22/2004 9:28:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 9:28:00 PM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 9:28:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 9:28:00 PM
Xylenes, Total	69	15		µg/L	1	10/22/2004 9:28:00 PM
Surr: 1,2-Dichloroethane-d4	91.1	71-126		%REC	1	10/22/2004 9:28:00 PM
Surr: 1,2-Dichloroethane-d4	84.4	71-126		%REC	10	10/24/2004 6:44:00 PM
Surr: 4-Bromofluorobenzene	91.1	74-125		%REC	1	10/22/2004 9:28:00 PM
Surr: 4-Bromofluorobenzene	87.5	74-125		%REC	10	10/24/2004 6:44:00 PM
Surr: Dibromofluoromethane	103	73-126		%REC	1	10/22/2004 9:28:00 PM
Surr: Dibromofluoromethane	86.8	73-126		%REC	10	10/24/2004 6:44:00 PM
Surr: Toluene-d8	99.9	75-125		%REC	1	10/22/2004 9:28:00 PM
Surr: Toluene-d8	88.4	75-125		%REC	10	10/24/2004 6:44:00 PM

ANIONS BY ION CHROMATOGRAPHY

E300

Analyst: MG

Chloride	404	50.0	mg/L	100	10/21/2004 3:55:00 AM
Fluoride	0.870	0.100	mg/L	1	10/21/2004 2:30:00 AM
Sulfate	290	10.0	mg/L	10	10/21/2004 3:27:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	10/21/2004 2:30:00 AM
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	1	10/21/2004 2:30:00 AM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	10	10/21/2004 3:27:00 AM
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	100	10/21/2004 3:55:00 AM

ALKALINITY

E310.1

Analyst: HDO

Alkalinity, Bicarbonate (As CaCO ₃)	890	5.00	mg/L	1	10/28/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/28/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/28/2004
Alkalinity, Total (As CaCO ₃)	890	5.00	mg/L	1	10/28/2004

CYANIDE, TOTAL

E335.3

Analyst: LMD

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-04

Client Sample ID: MW-48
Collection Date: 10/19/2004 11:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Cyanide	ND	0.0200		mg/L	1	10/28/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-05

Client Sample ID: RW-3
Collection Date: 10/19/2004 1:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:10:52 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.203	0.0200		mg/L	2	11/1/2004 6:02:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Barium	0.179	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 6:02:00 PM
Boron	0.259	0.200		mg/L	10	10/30/2004 7:44:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 6:02:00 PM
Calcium	265	25.0		mg/L	50	10/30/2004 5:15:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 6:02:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 6:02:00 PM
Copper	ND	0.00400		mg/L	2	11/1/2004 6:02:00 PM
Iron	1.18	0.400		mg/L	2	11/1/2004 6:02:00 PM
Lead	ND	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Magnesium	77.6	2.00		mg/L	10	10/30/2004 7:44:00 PM
Manganese	0.192	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Molybdenum	0.0175	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Nickel	ND	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Potassium	7.40	0.400		mg/L	2	11/1/2004 6:02:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Sodium	105	2.00		mg/L	10	10/30/2004 7:44:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 6:02:00 PM
Zinc	ND	0.0100		mg/L	2	11/2/2004 6:40:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	11		µg/L	1	11/4/2004 7:52:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	11/4/2004 7:52:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	11/4/2004 7:52:00 PM
2-Methylnaphthalene	33	11		µg/L	1	11/4/2004 7:52:00 PM
2-Methylphenol	ND	11		µg/L	1	11/4/2004 7:52:00 PM
2-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:52:00 PM
2-Nitrophenol	ND	11		µg/L	1	11/4/2004 7:52:00 PM
3&4-Methylphenol	ND	11		µg/L	1	11/4/2004 7:52:00 PM
3-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:52:00 PM
4-Nitroaniline	ND	11		µg/L	1	11/4/2004 7:52:00 PM
4-Nitrophenol	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Acenaphthene	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Acenaphthylene	ND	11		µg/L	1	11/4/2004 7:52:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-05

Client Sample ID: RW-3
Collection Date: 10/19/2004 1:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Anthracene	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Benz(a)anthracene	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Benzidine	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Hexachloroethane	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Isophorone	ND	11		µg/L	1	11/4/2004 7:52:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	11/4/2004 7:52:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	11/4/2004 7:52:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Naphthalene	68	11		µg/L	1	11/4/2004 7:52:00 PM
Nitrobenzene	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Pentachlorophenol	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Phenanthrene	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Phenol	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Pyrene	ND	11		µg/L	1	11/4/2004 7:52:00 PM
Surr: 2,4,6-Tribromophenol	81.9	39-153		%REC	1	11/4/2004 7:52:00 PM
Surr: 2-Fluorobiphenyl	72.7	40-147		%REC	1	11/4/2004 7:52:00 PM
Surr: 2-Fluorophenol	33.2	21-110		%REC	1	11/4/2004 7:52:00 PM
Surr: 4-Terphenyl-d14	76.2	39-141		%REC	1	11/4/2004 7:52:00 PM
Surr: Nitrobenzene-d5	69.1	37-140		%REC	1	11/4/2004 7:52:00 PM
Surr: Phenol-d6	22.5	11-100		%REC	1	11/4/2004 7:52:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
2-Butanone	ND	10		µg/L	1	10/22/2004 9:56:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	10/22/2004 9:56:00 PM
2-Hexanone	ND	10		µg/L	1	10/22/2004 9:56:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/22/2004 9:56:00 PM
Acetone	ND	10		µg/L	1	10/22/2004 9:56:00 PM
Benzene	560	25		µg/L	5	10/24/2004 7:09:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Bromoform	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Bromomethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Carbon disulfide	ND	10		µg/L	1	10/22/2004 9:56:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-05

Client Sample ID: RW-3
Collection Date: 10/19/2004 1:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Chloroform	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Ethylbenzene	92	5.0		µg/L	1	10/22/2004 9:56:00 PM
m,p-Xylene	390	10		µg/L	1	10/22/2004 9:56:00 PM
Methylene chloride	ND	10		µg/L	1	10/22/2004 9:56:00 PM
Styrene	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Toluene	31	5.0		µg/L	1	10/22/2004 9:56:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 9:56:00 PM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 9:56:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 9:56:00 PM
Xylenes, Total	510	15		µg/L	1	10/22/2004 9:56:00 PM
Surr: 1,2-Dichloroethane-d4	80.0	71-126		%REC	1	10/22/2004 9:56:00 PM
Surr: 1,2-Dichloroethane-d4	83.0	71-126		%REC	5	10/24/2004 7:09:00 PM
Surr: 4-Bromofluorobenzene	93.1	74-125		%REC	1	10/22/2004 9:56:00 PM
Surr: 4-Bromofluorobenzene	89.9	74-125		%REC	5	10/24/2004 7:09:00 PM
Surr: Dibromofluoromethane	88.0	73-126		%REC	1	10/22/2004 9:56:00 PM
Surr: Dibromofluoromethane	85.0	73-126		%REC	5	10/24/2004 7:09:00 PM
Surr: Toluene-d8	95.3	75-125		%REC	1	10/22/2004 9:56:00 PM
Surr: Toluene-d8	90.7	75-125		%REC	5	10/24/2004 7:09:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	167	5.00	mg/L	10	10/21/2004 6:46:00 AM
Fluoride	2.39	0.100	mg/L	1	10/21/2004 5:49:00 AM
Sulfate	611	100	mg/L	100	10/21/2004 7:15:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	10/21/2004 5:49:00 AM
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	1	10/21/2004 5:49:00 AM
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	10	10/21/2004 6:46:00 AM
Surr: Dichloroacetic acid (surr)	108	80-120	%REC	100	10/21/2004 7:15:00 AM

ALKALINITY**E310.1**

Analyst: HDO

Alkalinity, Bicarbonate (As CaCO ₃)	180	5.00	mg/L	1	10/28/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/28/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/28/2004
Alkalinity, Total (As CaCO ₃)	180	5.00	mg/L	1	10/28/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-05

Client Sample ID: RW-3
Collection Date: 10/19/2004 1:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Cyanide	ND	0.0200		mg/L	1	10/28/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-06

Client Sample ID: RW-9
Collection Date: 10/19/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:12:23 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/1/2004 6:07:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 6:07:00 PM
Barium	0.0671	0.0100		mg/L	2	11/1/2004 6:07:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 6:07:00 PM
Boron	0.482	0.200		mg/L	10	10/30/2004 7:49:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 6:07:00 PM
Calcium	152	5.00		mg/L	10	10/30/2004 7:49:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 6:07:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 6:07:00 PM
Copper	ND	0.00400		mg/L	2	11/1/2004 6:07:00 PM
Iron	0.474	0.400		mg/L	2	11/1/2004 6:07:00 PM
Lead	ND	0.0100		mg/L	2	11/1/2004 6:07:00 PM
Magnesium	130	2.00		mg/L	10	10/30/2004 7:49:00 PM
Manganese	0.209	0.0500		mg/L	10	10/30/2004 7:49:00 PM
Molybdenum	0.0621	0.0100		mg/L	2	11/1/2004 6:07:00 PM
Nickel	ND	0.0100		mg/L	2	11/1/2004 6:07:00 PM
Potassium	0.869	0.400		mg/L	2	11/1/2004 6:07:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 6:07:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 6:07:00 PM
Sodium	224	10.0		mg/L	50	10/30/2004 5:20:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 6:07:00 PM
Zinc	ND	0.0100		mg/L	2	11/2/2004 6:45:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/4/2004 8:17:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/4/2004 8:17:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
2-Methylphenol	ND	10		µg/L	1	11/4/2004 8:17:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/4/2004 8:17:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/4/2004 8:17:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/4/2004 8:17:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/4/2004 8:17:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/4/2004 8:17:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Acenaphthene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Acenaphthylene	ND	10		µg/L	1	11/4/2004 8:17:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-06

Client Sample ID: RW-9
Collection Date: 10/19/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Anthracene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Benzidine	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Hexachloroethane	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Isophorone	ND	10		µg/L	1	11/4/2004 8:17:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/4/2004 8:17:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/4/2004 8:17:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Naphthalene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Nitrobenzene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Phenanthrene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Phenol	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Pyrene	ND	10		µg/L	1	11/4/2004 8:17:00 PM
Surr: 2,4,6-Tribromophenol	81.5	39-153		%REC	1	11/4/2004 8:17:00 PM
Surr: 2-Fluorobiphenyl	69.3	40-147		%REC	1	11/4/2004 8:17:00 PM
Surr: 2-Fluorophenol	33.2	21-110		%REC	1	11/4/2004 8:17:00 PM
Surr: 4-Terphenyl-d14	76.2	39-141		%REC	1	11/4/2004 8:17:00 PM
Surr: Nitrobenzene-d5	66.8	37-140		%REC	1	11/4/2004 8:17:00 PM
Surr: Phenol-d6	20.3	11-100		%REC	1	11/4/2004 8:17:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/22/2004 10:23:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/22/2004 10:23:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/22/2004 10:23:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/22/2004 10:23:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/22/2004 10:23:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/22/2004 10:23:00 PM
2-Butanone	ND	10	µg/L	10/22/2004 10:23:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/22/2004 10:23:00 PM
2-Hexanone	ND	10	µg/L	10/22/2004 10:23:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/22/2004 10:23:00 PM
Acetone	ND	10	µg/L	10/22/2004 10:23:00 PM
Benzene	2,600	120	µg/L	10/24/2004 7:34:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/22/2004 10:23:00 PM
Bromoform	ND	5.0	µg/L	10/22/2004 10:23:00 PM
Bromomethane	ND	5.0	µg/L	10/22/2004 10:23:00 PM
Carbon disulfide	ND	10	µg/L	10/22/2004 10:23:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/22/2004 10:23:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-06

Client Sample ID: RW-9
Collection Date: 10/19/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Chloroform	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Ethylbenzene	9.7	5.0		µg/L	1	10/22/2004 10:23:00 PM
m,p-Xylene	190	10		µg/L	1	10/22/2004 10:23:00 PM
Methylene chloride	ND	10		µg/L	1	10/22/2004 10:23:00 PM
Styrene	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Toluene	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 10:23:00 PM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 10:23:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 10:23:00 PM
Xylenes, Total	190	15		µg/L	1	10/22/2004 10:23:00 PM
Surr: 1,2-Dichloroethane-d4	81.3	71-126		%REC	1	10/22/2004 10:23:00 PM
Surr: 1,2-Dichloroethane-d4	84.0	71-126		%REC	25	10/24/2004 7:34:00 PM
Surr: 4-Bromofluorobenzene	92.1	74-125		%REC	1	10/22/2004 10:23:00 PM
Surr: 4-Bromofluorobenzene	89.9	74-125		%REC	25	10/24/2004 7:34:00 PM
Surr: Dibromofluoromethane	87.8	73-126		%REC	25	10/24/2004 7:34:00 PM
Surr: Dibromofluoromethane	86.1	73-126		%REC	1	10/22/2004 10:23:00 PM
Surr: Toluene-d8	95.4	75-125		%REC	1	10/22/2004 10:23:00 PM
Surr: Toluene-d8	90.5	75-125		%REC	25	10/24/2004 7:34:00 PM
ANIONS BY ION CHROMATOGRAPHY						
				E300		Analyst: MG
Chloride	170	5.00		mg/L	10	10/21/2004 8:41:00 AM
Fluoride	1.40	0.100		mg/L	1	10/21/2004 7:43:00 AM
Sulfate	366	10.0		mg/L	10	10/21/2004 8:41:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	10/21/2004 7:43:00 AM
Surr: Dichloroacetic acid (surr)	106	80-120		%REC	1	10/21/2004 7:43:00 AM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	10	10/21/2004 8:41:00 AM
ALKALINITY						
				E310.1		Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	770	5.00		mg/L	1	10/28/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	10/28/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	10/28/2004
Alkalinity, Total (As CaCO ₃)	770	5.00		mg/L	1	10/28/2004
CYANIDE, TOTAL						
				E335.3		Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	10/28/2004

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level H - Analyzed outside of Hold Time

AR Page 21 of 30

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-07

Client Sample ID: RW-10
Collection Date: 10/19/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:13:55 PM
ICP METALS, TOTAL						
Aluminum	ND	0.0200		mg/L	2	11/1/2004 6:12:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 6:12:00 PM
Barium	0.0300	0.0100		mg/L	2	11/1/2004 6:12:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 6:12:00 PM
Boron	0.358	0.200		mg/L	10	10/30/2004 7:53:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 6:12:00 PM
Calcium	531	25.0		mg/L	50	10/30/2004 5:24:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 6:12:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 6:12:00 PM
Copper	0.00485	0.00400		mg/L	2	11/1/2004 6:12:00 PM
Iron	1.39	0.400		mg/L	2	11/1/2004 6:12:00 PM
Lead	ND	0.0100		mg/L	2	11/1/2004 6:12:00 PM
Magnesium	177	2.00		mg/L	10	10/30/2004 7:53:00 PM
Manganese	0.273	0.0500		mg/L	10	10/30/2004 7:53:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/1/2004 6:12:00 PM
Nickel	ND	0.0100		mg/L	2	11/1/2004 6:12:00 PM
Potassium	3.46	0.400		mg/L	2	11/1/2004 6:12:00 PM
Selenium	ND	0.0100		mg/L	2	11/1/2004 6:12:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 6:12:00 PM
Sodium	102	2.00		mg/L	10	10/30/2004 7:53:00 PM
Vanadium	ND	0.0100		mg/L	2	11/1/2004 6:12:00 PM
Zinc	ND	0.0100		mg/L	2	11/2/2004 6:49:00 PM
SEMOVOLATILE ORGANICS BY GC/MS						
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/4/2004 8:41:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/4/2004 8:41:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
2-Methylphenol	ND	10		µg/L	1	11/4/2004 8:41:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/4/2004 8:41:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/4/2004 8:41:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/4/2004 8:41:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/4/2004 8:41:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/4/2004 8:41:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Acenaphthene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Acenaphthylene	ND	10		µg/L	1	11/4/2004 8:41:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-07

Client Sample ID: RW-10
Collection Date: 10/19/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Anthracene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Benzidine	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Hexachloroethane	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Isophorone	ND	10		µg/L	1	11/4/2004 8:41:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/4/2004 8:41:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/4/2004 8:41:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Naphthalene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Nitrobenzene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Phenanthrene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Phenol	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Pyrene	ND	10		µg/L	1	11/4/2004 8:41:00 PM
Surr: 2,4,6-Tribromophenol	76.4	39-153		%REC	1	11/4/2004 8:41:00 PM
Surr: 2-Fluorobiphenyl	68.1	40-147		%REC	1	11/4/2004 8:41:00 PM
Surr: 2-Fluorophenol	29.6	21-110		%REC	1	11/4/2004 8:41:00 PM
Surr: 4-Terphenyl-d14	72.6	39-141		%REC	1	11/4/2004 8:41:00 PM
Surr: Nitrobenzene-d5	70.3	37-140		%REC	1	11/4/2004 8:41:00 PM
Surr: Phenol-d6	20.0	11-100		%REC	1	11/4/2004 8:41:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
2-Butanone	ND	10		µg/L	1	10/22/2004 10:51:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	10/22/2004 10:51:00 PM
2-Hexanone	ND	10		µg/L	1	10/22/2004 10:51:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/22/2004 10:51:00 PM
Acetone	ND	10		µg/L	1	10/22/2004 10:51:00 PM
Benzene	41	5.0		µg/L	1	10/22/2004 10:51:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Bromoform	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Bromomethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Carbon disulfide	ND	10		µg/L	1	10/22/2004 10:51:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-07

Client Sample ID: RW-10
Collection Date: 10/19/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Chloroform	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
m,p-Xylene	14	10		µg/L	1	10/22/2004 10:51:00 PM
Methylene chloride	ND	10		µg/L	1	10/22/2004 10:51:00 PM
Styrene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Toluene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 10:51:00 PM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 10:51:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 10:51:00 PM
Xylenes, Total	16	15		µg/L	1	10/22/2004 10:51:00 PM
Surr: 1,2-Dichloroethane-d4	85.1	71-126		%REC	1	10/22/2004 10:51:00 PM
Surr: 4-Bromofluorobenzene	99.6	74-125		%REC	1	10/22/2004 10:51:00 PM
Surr: Dibromofluoromethane	93.5	73-126		%REC	1	10/22/2004 10:51:00 PM
Surr: Toluene-d8	96.2	75-125		%REC	1	10/22/2004 10:51:00 PM

ANIONS BY ION CHROMATOGRAPHY

	E300			Analyst: MG
Chloride	165	2.50	mg/L	5
Fluoride	4.34	0.100	mg/L	1
Sulfate	1,410	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	113	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	110	80-120	%REC	100
Surr: Dichloroacetic acid (surr)	111	80-120	%REC	1

ALKALINITY

	E310.1			Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	390	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	390	5.00	mg/L	1

CYANIDE, TOTAL

	E335.3			Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-08

Client Sample ID: RW-16
Collection Date: 10/19/2004 2:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:15:27 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.653	0.100		mg/L	10	10/30/2004 7:58:00 PM
Arsenic	0.0240	0.0100		mg/L	2	11/1/2004 6:17:00 PM
Barium	0.0398	0.0100		mg/L	2	11/1/2004 6:17:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 6:17:00 PM
Boron	1.15	0.200		mg/L	10	10/30/2004 7:58:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 6:17:00 PM
Calcium	730	25.0		mg/L	50	10/30/2004 5:29:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 6:17:00 PM
Cobalt	0.00447	0.00400		mg/L	2	11/1/2004 6:17:00 PM
Copper	0.0135	0.00400		mg/L	2	11/1/2004 6:17:00 PM
Iron	2.61	0.400		mg/L	2	11/1/2004 6:17:00 PM
Lead	ND	0.0100		mg/L	2	11/1/2004 6:17:00 PM
Magnesium	561	10.0		mg/L	50	10/30/2004 5:29:00 PM
Manganese	0.950	0.0500		mg/L	10	10/30/2004 7:58:00 PM
Molybdenum	0.0326	0.0100		mg/L	2	11/1/2004 6:17:00 PM
Nickel	0.0225	0.0100		mg/L	2	11/1/2004 6:17:00 PM
Potassium	4.43	0.400		mg/L	2	11/1/2004 6:17:00 PM
Selenium	0.0257	0.0100		mg/L	2	11/1/2004 6:17:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 6:17:00 PM
Sodium	792	10.0		mg/L	50	10/30/2004 5:29:00 PM
Vanadium	0.0410	0.0100		mg/L	2	11/1/2004 6:17:00 PM
Zinc	0.0328	0.0100		mg/L	2	11/2/2004 6:54:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/4/2004 9:06:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/4/2004 9:06:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
2-Methylphenol	ND	10		µg/L	1	11/4/2004 9:06:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/4/2004 9:06:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/4/2004 9:06:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/4/2004 9:06:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/4/2004 9:06:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/4/2004 9:06:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Acenaphthene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Acenaphthylene	ND	10		µg/L	1	11/4/2004 9:06:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-08

Client Sample ID: RW-16
Collection Date: 10/19/2004 2:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Anthracene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Benzidine	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Hexachloroethane	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Isophorone	ND	10		µg/L	1	11/4/2004 9:06:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/4/2004 9:06:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/4/2004 9:06:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Naphthalene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Nitrobenzene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Phenanthrene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Phenol	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Pyrene	ND	10		µg/L	1	11/4/2004 9:06:00 PM
Surr: 2,4,6-Tribromophenol	87.1	39-153		%REC	1	11/4/2004 9:06:00 PM
Surr: 2-Fluorobiphenyl	74.2	40-147		%REC	1	11/4/2004 9:06:00 PM
Surr: 2-Fluorophenol	35.3	21-110		%REC	1	11/4/2004 9:06:00 PM
Surr: 4-Terphenyl-d14	77.7	39-141		%REC	1	11/4/2004 9:06:00 PM
Surr: Nitrobenzene-d5	76.6	37-140		%REC	1	11/4/2004 9:06:00 PM
Surr: Phenol-d6	21.9	11-100		%REC	1	11/4/2004 9:06:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
2-Butanone	ND	10		µg/L	1	10/22/2004 11:18:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	10/22/2004 11:18:00 PM
2-Hexanone	ND	10		µg/L	1	10/22/2004 11:18:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/22/2004 11:18:00 PM
Acetone	ND	10		µg/L	1	10/22/2004 11:18:00 PM
Benzene	12	5.0		µg/L	1	10/22/2004 11:18:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Bromoform	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Bromomethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Carbon disulfide	ND	10		µg/L	1	10/22/2004 11:18:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-08

Client Sample ID: RW-16
Collection Date: 10/19/2004 2:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Chloroform	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
m,p-Xylene	ND	10		µg/L	1	10/22/2004 11:18:00 PM
Methylene chloride	ND	10		µg/L	1	10/22/2004 11:18:00 PM
Styrene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Toluene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 11:18:00 PM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 11:18:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 11:18:00 PM
Xylenes, Total	ND	15		µg/L	1	10/22/2004 11:18:00 PM
Surr: 1,2-Dichloroethane-d4	87.8	71-126		%REC	1	10/22/2004 11:18:00 PM
Surr: 4-Bromofluorobenzene	96.5	74-125		%REC	1	10/22/2004 11:18:00 PM
Surr: Dibromofluoromethane	98.4	73-126		%REC	1	10/22/2004 11:18:00 PM
Surr: Toluene-d8	97.6	75-125		%REC	1	10/22/2004 11:18:00 PM
ANIONS BY ION CHROMATOGRAPHY						
				E300		
Chloride	818	50.0		mg/L	100	10/21/2004 2:23:00 PM
Fluoride	4.34	0.100		mg/L	1	10/21/2004 12:57:00 PM
Sulfate	3,200	100		mg/L	100	10/21/2004 2:23:00 PM
Nitrate/Nitrite (as N)	3.52	0.100		mg/L	1	10/21/2004 12:57:00 PM
Surr: Dichloroacetic acid (surr)	110	80-120		%REC	1	10/21/2004 12:57:00 PM
Surr: Dichloroacetic acid (surr)	111	80-120		%REC	100	10/21/2004 2:23:00 PM
ALKALINITY						
				E310.1		
Alkalinity, Bicarbonate (As CaCO3)	550	5.00		mg/L	1	10/28/2004
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	10/28/2004
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	10/28/2004
Alkalinity, Total (As CaCO3)	550	5.00		mg/L	1	10/28/2004
CYANIDE, TOTAL						
				E335.3		
Cyanide	ND	0.0200		mg/L	1	10/28/2004

Qualifiers: ND - Not Detected at the Reporting Limit
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* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-09

Client Sample ID: RW-17
Collection Date: 10/19/2004 2:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
Mercury	ND	0.000200		mg/L	1	10/29/2004 12:16:59 PM
ICP METALS, TOTAL						
Aluminum	0.0837	0.0200		mg/L	2	11/1/2004 6:21:00 PM
Arsenic	ND	0.0100		mg/L	2	11/1/2004 6:21:00 PM
Barium	0.0666	0.0100		mg/L	2	11/1/2004 6:21:00 PM
Beryllium	ND	0.00400		mg/L	2	11/1/2004 6:21:00 PM
Boron	0.774	0.200		mg/L	10	10/30/2004 8:16:00 PM
Cadmium	ND	0.00200		mg/L	2	11/1/2004 6:21:00 PM
Calcium	389	25.0		mg/L	50	10/30/2004 5:33:00 PM
Chromium	ND	0.00400		mg/L	2	11/1/2004 6:21:00 PM
Cobalt	ND	0.00400		mg/L	2	11/1/2004 6:21:00 PM
Copper	0.00764	0.00400		mg/L	2	11/1/2004 6:21:00 PM
Iron	1.24	0.400		mg/L	2	11/1/2004 6:21:00 PM
Lead	ND	0.0100		mg/L	2	11/1/2004 6:21:00 PM
Magnesium	347	10.0		mg/L	50	10/30/2004 5:33:00 PM
Manganese	0.304	0.0500		mg/L	10	10/30/2004 8:16:00 PM
Molybdenum	0.0117	0.0100		mg/L	2	11/1/2004 6:21:00 PM
Nickel	ND	0.0100		mg/L	2	11/1/2004 6:21:00 PM
Potassium	8.32	0.400		mg/L	2	11/1/2004 6:21:00 PM
Selenium	0.0158	0.0100		mg/L	2	11/1/2004 6:21:00 PM
Silver	ND	0.0100		mg/L	2	11/1/2004 6:21:00 PM
Sodium	250	10.0		mg/L	50	10/30/2004 5:33:00 PM
Vanadium	0.0130	0.0100		mg/L	2	11/1/2004 6:21:00 PM
Zinc	0.0139	0.0100		mg/L	2	11/2/2004 6:59:00 PM
SEMOVOLATILE ORGANICS BY GC/MS						
		SW8270				Prep Date: 10/26/2004 Analyst: HV
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/5/2004 11:10:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/5/2004 11:10:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
2-Methylphenol	ND	10		µg/L	1	11/5/2004 11:10:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:10:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/5/2004 11:10:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/5/2004 11:10:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:10:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/5/2004 11:10:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Acenaphthene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Acenaphthylene	ND	10		µg/L	1	11/5/2004 11:10:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-09

Client Sample ID: RW-17
Collection Date: 10/19/2004 2:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Anthracene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Benzidine	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Hexachloroethane	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Isophorone	ND	10		µg/L	1	11/5/2004 11:10:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/5/2004 11:10:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/5/2004 11:10:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Naphthalene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Nitrobenzene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Phenanthrene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Phenol	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Pyrene	ND	10		µg/L	1	11/5/2004 11:10:00 PM
Surr: 2,4,6-Tribromophenol	75.3	39-153		%REC	1	11/5/2004 11:10:00 PM
Surr: 2-Fluorobiphenyl	66.3	40-147		%REC	1	11/5/2004 11:10:00 PM
Surr: 2-Fluorophenol	30.5	21-110		%REC	1	11/5/2004 11:10:00 PM
Surr: 4-Terphenyl-d14	73.0	39-141		%REC	1	11/5/2004 11:10:00 PM
Surr: Nitrobenzene-d5	67.6	37-140		%REC	1	11/5/2004 11:10:00 PM
Surr: Phenol-d6	16.3	11-100		%REC	1	11/5/2004 11:10:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/22/2004 11:45:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/22/2004 11:45:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/22/2004 11:45:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/22/2004 11:45:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/22/2004 11:45:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/22/2004 11:45:00 PM
2-Butanone	ND	10	µg/L	10/22/2004 11:45:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/22/2004 11:45:00 PM
2-Hexanone	ND	10	µg/L	10/22/2004 11:45:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/22/2004 11:45:00 PM
Acetone	ND	10	µg/L	10/22/2004 11:45:00 PM
Benzene	6.7	5.0	µg/L	10/22/2004 11:45:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/22/2004 11:45:00 PM
Bromoform	ND	5.0	µg/L	10/22/2004 11:45:00 PM
Bromomethane	ND	5.0	µg/L	10/22/2004 11:45:00 PM
Carbon disulfide	ND	10	µg/L	10/22/2004 11:45:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/22/2004 11:45:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 08, 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual
Lab ID: 0410220-09

Client Sample ID: RW-17
Collection Date: 10/19/2004 2:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Chloroethane	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Chloroform	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Chloromethane	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
m,p-Xylene	ND	10		µg/L	1	10/22/2004 11:45:00 PM
Methylene chloride	ND	10		µg/L	1	10/22/2004 11:45:00 PM
Styrene	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Toluene	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/22/2004 11:45:00 PM
Vinyl acetate	ND	10		µg/L	1	10/22/2004 11:45:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/22/2004 11:45:00 PM
Xylenes, Total	ND	15		µg/L	1	10/22/2004 11:45:00 PM
Surr: 1,2-Dichloroethane-d4	88.1	71-126		%REC	1	10/22/2004 11:45:00 PM
Surr: 4-Bromofluorobenzene	97.7	74-125		%REC	1	10/22/2004 11:45:00 PM
Surr: Dibromofluoromethane	92.7	73-126		%REC	1	10/22/2004 11:45:00 PM
Surr: Toluene-d8	92.6	75-125		%REC	1	10/22/2004 11:45:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	111	2.50	mg/L	5	10/21/2004 3:20:00 PM
Fluoride	1.83	0.100	mg/L	1	10/21/2004 2:51:00 PM
Sulfate	1,960	100	mg/L	100	10/21/2004 4:17:00 PM
Nitrate/Nitrite (as N)	1.32	0.100	mg/L	1	10/21/2004 2:51:00 PM
Surr: Dichloroacetic acid (surr)	100	80-120	%REC	1	10/21/2004 2:51:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120	%REC	5	10/21/2004 3:20:00 PM
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	100	10/21/2004 4:17:00 PM

ALKALINITY**E310.1**

Analyst: HDO

Alkalinity, Bicarbonate (As CaCO ₃)	190	5.00	mg/L	1	10/28/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/28/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/28/2004
Alkalinity, Total (As CaCO ₃)	190	5.00	mg/L	1	10/28/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	10/28/2004
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Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Nov 08 2004

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

MLBK	Sample ID: MBLKW2-102604			Test Code: SW6020	Units: mg/L		Analysis Date: 10/27/04 14:04			
Client ID:		Run ID: ICP4500_041027A		SeqNo: 561905	Prep Date: 10/26/2004 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010								
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Cadmium	ND	0.0020								
Calcium	ND	0.50								
Chromium	ND	0.0050								
Cobalt	ND	0.0050								
Copper	ND	0.0050								
Iron	ND	0.20								
Lead	ND	0.0050								
Magnesium	ND	0.20								
Manganese	ND	0.0050								
Molybdenum	ND	0.0050								
Nickel	ND	0.0050								
Potassium	ND	0.20								
Selenium	ND	0.0050								
Silver	ND	0.0050								
Sodium	ND	0.20								
Vanadium	ND	0.0050								
Zinc	ND	0.0050								

MLBK	Sample ID: MBLKW2-102604			Test Code: SW6020	Units: mg/L		Analysis Date: 10/29/04 19:36			
Client ID:		Run ID: ICP4500_041029A		SeqNo: 563925	Prep Date: 10/26/2004 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	ND	0.0020								
Boron	ND	0.020								

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **10862** InstrumentID: **ICP4500**

LCS	Sample ID: MLCSW2-102604	Test Code: SW6020		Units: mg/L		Analysis Date: 10/27/04 14:09				
Client ID:	Run ID: ICP4500_041027A	SeqNo:	561906	Prep Date:	10/26/2004	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04112	0.010	0.05	0	82.2	79-126	0	0	0	
Arsenic	0.04758	0.0050	0.05	0	95.2	80-121	0	0	0	
Barium	0.04482	0.0050	0.05	0	89.6	79.8-119	0	0	0	
Cadmium	0.04839	0.0020	0.05	0	96.8	79.1-119	0	0	0	
Calcium	4.743	0.50	5	0	94.9	80-121	0	0	0	
Chromium	0.0437	0.0050	0.05	0	87.4	79.3-121	0	0	0	
Cobalt	0.04392	0.0050	0.05	0	87.8	82-121	0	0	0	
Copper	0.04325	0.0050	0.05	0	86.5	81-120	0	0	0	
Iron	4.634	0.20	5	0	92.7	80-120	0	0	0	
Lead	0.04323	0.0050	0.05	0	86.5	80-118	0	0	0	
Magnesium	4.78	0.20	5	0	95.6	80-120	0	0	0	
Manganese	0.04349	0.0050	0.05	0	87	82-119	0	0	0	
Molybdenum	0.04352	0.0050	0.05	0	87	81-115	0	0	0	
Nickel	0.04498	0.0050	0.05	0	90	82-120	0	0	0	
Potassium	4.685	0.20	5	0	93.7	80-120	0	0	0	
Selenium	0.04815	0.0050	0.05	0	96.3	79.2-118	0	0	0	
Silver	0.04552	0.0050	0.05	0	91	80-117	0	0	0	
Sodium	4.55	0.20	5	0	91	80.6-119	0	0	0	
Vanadium	0.045	0.0050	0.05	0	90	82.1-119	0	0	0	
Zinc	0.04493	0.0050	0.05	0	89.9	79-118	0	0	0	

LCS	Sample ID: MLCSW2-102604	Test Code: SW6020		Units: mg/L		Analysis Date: 10/29/04 19:40				
Client ID:	Run ID: ICP4500_041029A	SeqNo:	563926	Prep Date:	10/26/2004	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05309	0.0020	0.05	0	106	78.9-120	0	0	0	
Boron	0.5362	0.020	0.5	0	107	80-120	0	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

MS	Sample ID: 0410225-08CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 10/27/04 14:31			
Client ID:		Run ID:	ICP4500_041027A	SeqNo:	561911	Prep Date:	10/26/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.0456	0.010	0.05	0.0002146	90.8	79-126		0		
Arsenic	0.04741	0.0050	0.05	-0.001188	97.2	80-121		0		
Barium	0.04617	0.0050	0.05	0.0009088	90.5	79.8-119		0		
Cadmium	0.0482	0.0020	0.05	0.00005498	96.3	79.1-119		0		
Calcium	4.79	0.50	5	0.09682	93.9	80-121		0		
Chromium	0.04517	0.0050	0.05	0.0004131	89.5	79.3-121		0		
Cobalt	0.04461	0.0050	0.05	0.0004069	88.4	82-121		0		
Copper	0.04473	0.0050	0.05	0.0001013	89.3	80-120		0		
Iron	4.703	0.20	5	0.01851	93.7	80-120		0		
Lead	0.04313	0.0050	0.05	0.00009188	86.1	80-118		0		
Magnesium	4.694	0.20	5	0.04154	93	80-120		0		
Manganese	0.047	0.0050	0.05	0.00278	88.4	82-119		0		
Molybdenum	0.04295	0.0050	0.05	0.001224	83.5	81-115		0		
Nickel	0.04574	0.0050	0.05	-0.00005889	91.6	82-120		0		
Potassium	4.702	0.20	5	0.03225	93.4	80-120		0		
Selenium	0.04829	0.0050	0.05	0.00003129	96.5	79.2-118		0		
Silver	0.04553	0.0050	0.05	0.0003438	90.4	80-117		0		
Sodium	4.57	0.20	5	0.09221	89.6	80.6-119		0		
Vanadium	0.04464	0.0050	0.05	0.00001488	89.3	82.1-119		0		
Zinc	0.04492	0.0050	0.05	0.001819	86.2	79-118		0		

MS	Sample ID: 0410225-08CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 10/29/04 19:54			
Client ID:		Run ID:	ICP4500_041029A	SeqNo:	563929	Prep Date:	10/26/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05312	0.0020	0.05	0.00004241	106	78.9-120		0		
Boron	0.5305	0.020	0	0.009991	0	80-120		0		

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

MSD	Sample ID: 0410225-08CMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 10/27/04 14:36			
Client ID:	Run ID: ICP4500_041027A		SeqNo: 561912		Prep Date: 10/26/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04562	0.010	0.05	0.0002146	90.8	79-126	0.0456	0.0439	15	
Arsenic	0.04639	0.0050	0.05	-0.001188	95.2	80-121	0.04741	2.17	15	
Barium	0.04587	0.0050	0.05	0.0009088	89.9	79.8-119	0.04617	0.652	15	
Cadmium	0.04773	0.0020	0.05	0.00005498	95.4	79.1-119	0.0482	0.98	15	
Calcium	4.776	0.50	5	0.09682	93.6	80-121	4.79	0.293	15	
Chromium	0.04451	0.0050	0.05	0.0004131	88.2	79.3-121	0.04517	1.47	15	
Cobalt	0.04453	0.0050	0.05	0.0004069	88.2	82-121	0.04461	0.179	15	
Copper	0.04403	0.0050	0.05	0.0001013	87.9	81-120	0.04473	1.58	15	
Iron	4.649	0.20	5	0.01851	92.6	80-120	4.703	1.15	15	
Lead	0.04298	0.0050	0.05	0.00009188	85.8	80-118	0.04313	0.348	15	
Magnesium	4.66	0.20	5	0.04154	92.4	80-120	4.694	0.727	15	
Manganese	0.046	0.0050	0.05	0.00278	86.4	82-119	0.047	2.15	15	
Molybdenum	0.04282	0.0050	0.05	0.001224	83.2	81-115	0.04295	0.303	15	
Nickel	0.04493	0.0050	0.05	-0.00005889	90	82-120	0.04574	1.79	15	
Potassium	4.713	0.20	5	0.03225	93.6	80-120	4.702	0.234	15	
Selenium	0.04641	0.0050	0.05	0.00003129	92.8	79.2-118	0.04829	3.97	15	
Silver	0.04434	0.0050	0.05	0.0003438	88	80-117	0.04553	2.65	15	
Sodium	4.529	0.20	5	0.09221	88.7	80.6-119	4.57	0.901	15	
Vanadium	0.04434	0.0050	0.05	0.00001488	88.7	82.1-119	0.04464	0.674	15	
Zinc	0.04556	0.0050	0.05	0.001819	87.5	79-118	0.04492	1.41	15	

MSD	Sample ID: 0410225-08CMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 10/29/04 19:59			
Client ID:	Run ID: ICP4500_041029A		SeqNo: 563930		Prep Date: 10/26/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.04994	0.0020	0.05	0.00004241	99.8	78.9-120	0.05312	6.17	15	
Boron	0.5156	0.020	0	0.009991	0	80-120	0.5305	2.85	15	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: 10862 InstrumentID: ICP4500

DUP	Sample ID: 0410225-08CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 10/27/04 14:27				
Client ID:		Run ID:	ICP4500_041027A	SeqNo:	561910	Prep Date:	10/26/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010	0	0	0	0-0	0.0002146	0	25	
Arsenic	ND	0.0050	0	0	0	0-0	-0.001188	0	25	
Barium	0.0009541	0.0050	0	0	0	0-0	0.0009088	0	25	J
Cadmium	ND	0.0020	0	0	0	0-0	0.00005498	0	25	
Calcium	ND	0.50	0	0	0	0-0	0.09682	0	25	
Chromium	0.0005351	0.0050	0	0	0	0-0	0.0004131	0	25	J
Cobalt	0.0003818	0.0050	0	0	0	0-0	0.0004069	0	25	J
Copper	ND	0.0050	0	0	0	0-0	0.0001013	0	25	
Iron	ND	0.20	0	0	0	0-0	0.01851	0	25	
Lead	0.001886	0.0050	0	0	0	0-0	0.00009188	0	25	J
Magnesium	0.03988	0.20	0	0	0	0-0	0.04154	0	25	J
Manganese	0.0028	0.0050	0	0	0	0-0	0.00278	0	25	J
Molybdenum	ND	0.0050	0	0	0	0-0	0.001224	0	25	
Nickel	ND	0.0050	0	0	0	0-0	-0.00005889	0	25	
Potassium	0.02547	0.20	0	0	0	0-0	0.03225	0	25	J
Selenium	ND	0.0050	0	0	0	0-0	0.00003129	0	25	
Silver	0.0006316	0.0050	0	0	0	0-0	0.0003438	0	25	J
Sodium	0.09019	0.20	0	0	0	0-0	0.09221	0	25	J
Vanadium	ND	0.0050	0	0	0	0-0	0.00001488	0	25	
Zinc	ND	0.0050	0	0	0	0-0	0.001819	0	25	

DUP	Sample ID: 0410225-08CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 10/29/04 19:49				
Client ID:		Run ID:	ICP4500_041029A	SeqNo:	563928	Prep Date:	10/26/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	ND	0.0020	0	0	0	0-0	0.00004241	0	25	
Boron	ND	0.020	0	0	0	0-0	0.009991	0	25	

The following samples were analyzed in this batch:

0410220-01C	0410220-02C	0410220-03C
0410220-04C	0410220-05C	0410220-06C
0410220-07C	0410220-08C	0410220-09C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: 10917 InstrumentID: Mercury

MBLK		Sample ID: GBLKW1-102804		Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 11:41			
Client ID:		Run ID: MERCURY_041029A		SeqNo: 563457		Prep Date: 10/28/2004		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		ND	0.00020								
LCS		Sample ID: GLCSW1-102804		Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 11:43			
Client ID:		Run ID: MERCURY_041029A		SeqNo: 563458		Prep Date: 10/28/2004		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.00492	0.00020	0.005	0	98.4	83-115	0			
LCSD		Sample ID: GLCSDW1-102804		Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 11:52			
Client ID:		Run ID: MERCURY_041029A		SeqNo: 563459		Prep Date: 10/28/2004		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.00525	0.00020	0.005	0	105	83-115	0.00492	6.49	20	
MS		Sample ID: 0410220-01CMS		Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 12:00			
Client ID: KWB-3R		Run ID: MERCURY_041029A		SeqNo: 563462		Prep Date: 10/28/2004		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.00522	0.00020	0.005	0.00001	104	83-115	0			
MSD		Sample ID: 0410220-01CMSD		Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 12:01			
Client ID: KWB-3R		Run ID: MERCURY_041029A		SeqNo: 563463		Prep Date: 10/28/2004		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.00529	0.00020	0.005	0.00001	106	83-115	0.00522	1.33	20	
DUP		Sample ID: 0410220-01CDUP		Test Code: SW7470		Units: mg/L		Analysis Date: 10/29/04 11:58			
Client ID: KWB-3R		Run ID: MERCURY_041029A		SeqNo: 563461		Prep Date: 10/28/2004		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		ND	0.00020	0	0	0	0-0	0.00001	0	20	

The following samples were analyzed in this batch:

0410220-01C	0410220-02C	0410220-03C
0410220-04C	0410220-05C	0410220-06C
0410220-07C	0410220-08C	0410220-09C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: 10847 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-041025	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 13:40			
Client ID:	Run ID: SV-3_041027A	SeqNo:	562498	Prep Date:	10/25/2004	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3&4-Methylphenol	ND	10							
3-Nitroaniline	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	.0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	89.87	10	100	0	89.9	39-153	0		
Surr: 2-Fluorobiphenyl	78.41	10	100	0	78.4	40-147	0		
Surr: 2-Fluorophenol	37.87	10	100	0	37.9	21-110	0		
Surr: 4-Terphenyl-d14	83.43	10	100	0	83.4	39-141	0		
Surr: Nitrobenzene-d5	78.27	10	100	0	78.3	37-140	0		
Surr: Phenol-d6	23.21	10	100	0	23.2	11-100	0		

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Reference analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **10847** InstrumentID: **SV-3**

LCS	Sample ID: SLCSW1-041025	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 14:07				
Client ID:	Run ID: SV-3_041027A	SeqNo:	562499	Prep Date: 10/25/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	34.36	10	50	0	68.7	50-115		0		
2,4,5-Trichlorophenol	76.11	10	100	0	76.1	68-128		0		
2,4,6-Trichlorophenol	73.09	10	100	0	73.1	66-125		0		
2-Methylnaphthalene	33.29	10	50	0	66.6	47-122		0		
2-Methylphenol	58.36	10	100	0	58.4	51-115		0		
2-Nitroaniline	35.51	10	50	0	71	64-128		0		
2-Nitrophenol	74.41	10	100	0	74.4	60-119		0		
3&4-Methylphenol	80.21	10	150	0	53.5	44-115		0		
3-Nitroaniline	26.01	10	50	0	52	61-118		0		S
4-Nitroaniline	31.83	10	50	0	63.7	61-123		0		
4-Nitrophenol	34.57	10	100	0	34.6	17-100		0		
Acenaphthene	36.6	10	50	0	73.2	68-115		0		
Acenaphthylene	35.99	10	50	0	72	67-116		0		
Aniline	21.94	10	50	0	43.9	40-130		0		
Anthracene	37.69	10	50	0	75.4	70-129		0		
Benz(a)anthracene	37.4	10	50	0	74.8	55-131		0		
Benzidine	10.56	10	50	0	21.1	10-115		0		
Hexachloroethane	32.6	10	50	0	65.2	46-115		0		
Indeno(1,2,3-cd)pyrene	37.9	10	50	0	75.8	42-123		0		
Isophorone	36.85	10	50	0	73.7	63-117		0		
N-Nitrosodi-n-propylamine	36.04	10	50	0	72.1	67-115		0		
N-Nitrosodimethylamine	14.46	10	50	0	28.9	28-115		0		
N-Nitrosodiphenylamine	39.15	10	50	0	78.3	72-144		0		
Naphthalene	35.25	10	50	0	70.5	52-115		0		
Nitrobenzene	36.45	10	50	0	72.9	65-115		0		
Pentachlorophenol	70.54	10	100	0	70.5	65-123		0		
Phenanthrene	37.92	10	50	0	75.8	69-119		0		
Phenol	25.85	10	100	0	25.8	16-115		0		
Pyrene	35.39	10	50	0	70.8	51-130		0		
Surr: 2,4,6-Tribromophenol	83.67	10	100	0	83.7	39-153		0		
Surr: 2-Fluorobiphenyl	76.26	10	100	0	76.3	40-147		0		
Surr: 2-Fluorophenol	37.46	10	100	0	37.5	21-110		0		
Surr: 4-Terphenyl-d14	79.11	10	100	0	79.1	39-141		0		
Surr: Nitrobenzene-d5	76.93	10	100	0	76.9	37-140		0		
Surr: Phenol-d6	26.76	10	100	0	26.8	11-100		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **10847** InstrumentID: **SV-3**

LCSD		Sample ID: SLCSDW1-041025		Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 14:32		
Client ID:		Run ID: SV-3_041027A		SeqNo: 562500		Prep Date: 10/25/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	35.11	10	50	0	70.2	50-115	34.36	2.17	30	
2,4,5-Trichlorophenol	72.12	10	100	0	72.1	68-128	76.11	5.38	30	
2,4,6-Trichlorophenol	75.89	10	100	0	75.9	66-125	73.09	3.75	30	
2-Methylnaphthalene	33.19	10	50	0	66.4	47-122	33.29	0.307	30	
2-Methylphenol	70.28	10	100	0	70.3	51-115	58.36	18.5	30	
2-Nitroaniline	34.79	10	50	0	69.6	64-128	35.51	2.04	30	
2-Nitrophenol	74.13	10	100	0	74.1	60-119	74.41	0.376	30	
3&4-Methylphenol	98.31	10	150	0	65.5	44-115	80.21	20.3	30	
3-Nitroaniline	26.1	10	50	0	52.2	61-118	26.01	0.35	30	S
4-Nitroaniline	32.93	10	50	0	65.9	61-123	31.83	3.41	30	
4-Nitrophenol	33.89	10	100	0	33.9	17-100	34.57	1.99	30	
Acenaphthene	37.43	10	50	0	74.9	68-115	36.6	2.22	30	
Acenaphthylene	36.48	10	50	0	73	67-116	35.99	1.36	30	
Aniline	20.77	10	50	0	41.5	40-130	21.94	5.47	30	
Anthracene	38.49	10	50	0	77	70-129	37.69	2.11	30	
Benz(a)anthracene	37.58	10	50	0	75.2	55-131	37.4	0.48	30	
Benzidine	7.619	10	50	0	15.2	10-115	10.56	0	30	J
Hexachloroethane	41.02	10	50	0	82	46-115	32.6	22.9	30	
Indeno(1,2,3-cd)pyrene	38.62	10	50	0	77.2	42-123	37.9	1.87	30	
Isophorone	37.44	10	50	0	74.9	63-117	36.85	1.58	30	
N-Nitrosodi-n-propylamine	44.51	10	50	0	89	67-115	36.04	21	30	
N-Nitrosodimethylamine	17.45	10	50	0	34.9	28-115	14.46	18.8	30	
N-Nitrosodiphenylamine	41.22	10	50	0	82.4	72-144	39.15	5.15	30	
Naphthalene	35.57	10	50	0	71.1	52-115	35.25	0.914	30	
Nitrobenzene	35.78	10	50	0	71.6	65-115	36.45	1.86	30	
Pentachlorophenol	73.26	10	100	0	73.3	65-123	70.54	3.78	30	
Phenanthrene	38.47	10	50	0	76.9	69-119	37.92	1.44	30	
Phenol	24.99	10	100	0	25	16-115	25.85	3.35	30	
Pyrene	36.15	10	50	0	72.3	51-130	35.39	2.11	30	
Surr: 2,4,6-Tribromophenol	84.77	10	100	0	84.8	39-153	83.67	1.3	30	
Surr: 2-Fluorobiphenyl	73.11	10	100	0	73.1	40-147	76.26	4.22	30	
Surr: 2-Fluorophenol	40.6	10	100	0	40.6	21-110	37.46	8.06	30	
Surr: 4-Terphenyl-d14	76.98	10	100	0	77	39-141	79.11	2.74	30	
Surr: Nitrobenzene-d5	73.47	10	100	0	73.5	37-140	76.93	4.59	30	
Surr: Phenol-d6	25.05	10	100	0	25.1	11-100	26.76	6.6	30	

The following samples were analyzed in this batch:

0410220-01E

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **10875** InstrumentID: **SV-3**

M BLK	Sample ID: SBLKW1-041026			Test Code: SW8270	Units: µg/L		Analysis Date: 10/27/04 19:17		
Client ID:		Run ID:	SV-3_041027D	SeqNo:	563529	Prep Date:	10/26/2004	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3&4-Methylphenol	ND	10							
3-Nitroaniline	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	80.23	10	100	0	80.2	39-153	0		
Surr: 2-Fluorobiphenyl	70.95	10	100	0	70.9	40-147	0		
Surr: 2-Fluorophenol	37.98	10	100	0	38	21-110	0		
Surr: 4-Terphenyl-d14	77.42	10	100	0	77.4	39-141	0		
Surr: Nitrobenzene-d5	70.16	10	100	0	70.2	37-140	0		
Surr: Phenol-d6	22.92	10	100	0	22.9	11-100	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: 10875 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-041026	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 19:42		
Client ID:		Run ID:	SV-3_041027D	SeqNo:	563530	Prep Date:	10/26/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	32.61	10	50	0	65.2	50-115	0	
2,4,5-Trichlorophenol	76.04	10	100	0	76	68-128	0	
2,4,6-Trichlorophenol	73.93	10	100	0	73.9	66-125	0	
2-Methylnaphthalene	32.28	10	50	0	64.6	47-122	0	
2-Methylphenol	59.82	10	100	0	59.8	51-115	0	
2-Nitroaniline	35.95	10	50	0	71.9	64-128	0	
2-Nitrophenol	69.76	10	100	0	69.8	60-119	0	
3&4-Methylphenol	83.2	10	150	0	55.5	44-115	0	
3-Nitroaniline	31.01	10	50	0	62	61-118	0	
4-Nitroaniline	34.38	10	50	0	68.8	61-123	0	
4-Nitrophenol	34.03	10	100	0	34	17-100	0	
Acenaphthene	37.1	10	50	0	74.2	68-115	0	
Acenaphthylene	35.57	10	50	0	71.1	67-116	0	
Aniline	28.54	10	50	0	57.1	40-130	0	
Anthracene	38.89	10	50	0	77.8	70-129	0	
Benz(a)anthracene	36.82	10	50	0	73.6	55-131	0	
Benzidine	17.37	10	50	0	34.7	10-115	0	
Hexachloroethane	31.89	10	50	0	63.8	46-115	0	
Indeno(1,2,3-cd)pyrene	35.69	10	50	0	71.4	42-123	0	
Isophorone	35.03	10	50	0	70.1	63-117	0	
N-Nitrosodi-n-propylamine	35.24	10	50	0	70.5	67-115	0	
N-Nitrosodimethylamine	18.06	10	50	0	36.1	28-115	0	
N-Nitrosodiphenylamine	41.12	10	50	0	82.2	72-144	0	
Naphthalene	34.53	10	50	0	69.1	52-115	0	
Nitrobenzene	34.76	10	50	0	69.5	65-115	0	
Pentachlorophenol	65.81	10	100	0	65.8	65-123	0	
Phenanthrene	38.77	10	50	0	77.5	69-119	0	
Phenol	27.92	10	100	0	27.9	16-115	0	
Pyrene	35.63	10	50	0	71.3	51-130	0	
Surr: 2,4,6-Tribromophenol	83.35	10	100	0	83.4	39-153	0	
Surr: 2-Fluorobiphenyl	72.57	10	100	0	72.6	40-147	0	
Surr: 2-Fluorophenol	41.87	10	100	0	41.9	21-110	0	
Surr: 4-Terphenyl-d14	77.07	10	100	0	77.1	39-141	0	
Surr: Nitrobenzene-d5	70.33	10	100	0	70.3	37-140	0	
Surr: Phenol-d6	28.11	10	100	0	28.1	11-100	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **10875** InstrumentID: **SV-3**

LCSD	Sample ID: SLCSDW1-041026	Test Code: SW8270		Units: µg/L		Analysis Date: 10/27/04 20:07				
Client ID:		Run ID: SV-3_041027D	SeqNo: 563531	Prep Date: 10/26/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	33.49	10	50	0	67	50-115	32.61	2.67	30	
2,4,5-Trichlorophenol	71.62	10	100	0	71.6	68-128	76.04	5.97	30	
2,4,6-Trichlorophenol	74.13	10	100	0	74.1	66-125	73.93	0.267	30	
2-Methylnaphthalene	32.38	10	50	0	64.8	47-122	32.28	0.304	30	
2-Methylphenol	59.55	10	100	0	59.6	51-115	59.82	0.442	30	
2-Nitroaniline	35.2	10	50	0	70.4	64-128	35.95	2.12	30	
2-Nitrophenol	70.56	10	100	0	70.6	60-119	69.76	1.14	30	
3&4-Methylphenol	82.49	10	150	0	55	44-115	83.2	0.854	30	
3-Nitroaniline	31.61	10	50	0	63.2	61-118	31.01	1.92	30	
4-Nitroaniline	35.65	10	50	0	71.3	61-123	34.38	3.61	30	
4-Nitrophenol	35.68	10	100	0	35.7	17-100	34.03	4.71	30	
Acenaphthene	36.61	10	50	0	73.2	68-115	37.1	1.34	30	
Acenaphthylene	35.96	10	50	0	71.9	67-116	35.57	1.09	30	
Aniline	31.11	10	50	0	62.2	40-130	28.54	8.62	30	
Anthracene	38.45	10	50	0	76.9	70-129	38.89	1.13	30	
Benz(a)anthracene	36.79	10	50	0	73.6	55-131	36.82	0.0829	30	
Benzidine	16.64	10	50	0	33.3	10-115	17.37	4.27	30	
Hexachloroethane	32.7	10	50	0	65.4	46-115	31.89	2.53	30	
Indeno(1,2,3-cd)pyrene	36.8	10	50	0	73.6	42-123	35.69	3.07	30	
Isophorone	34.65	10	50	0	69.3	63-117	35.03	1.1	30	
N-Nitrosodi-n-propylamine	34.75	10	50	0	69.5	67-115	35.24	1.41	30	
N-Nitrosodimethylamine	16.91	10	50	0	33.8	28-115	18.06	6.55	30	
N-Nitrosodiphenylamine	40.81	10	50	0	81.6	72-144	41.12	0.736	30	
Naphthalene	34.24	10	50	0	68.5	52-115	34.53	0.85	30	
Nitrobenzene	34.02	10	50	0	68	65-115	34.76	2.16	30	
Pentachlorophenol	68.09	10	100	0	68.1	65-123	65.81	3.41	30	
Phenanthrene	38.72	10	50	0	77.4	69-119	38.77	0.119	30	
Phenol	28.39	10	100	0	28.4	16-115	27.92	1.69	30	
Pyrene	36.13	10	50	0	72.3	51-130	35.63	1.39	30	
Surr: 2,4,6-Tribromophenol	82.4	10	100	0	82.4	39-153	83.35	1.15	30	
Surr: 2-Fluorobiphenyl	70.72	10	100	0	70.7	40-147	72.57	2.59	30	
Surr: 2-Fluorophenol	40.91	10	100	0	40.9	21-110	41.87	2.31	30	
Surr: 4-Terphenyl-d14	76.95	10	100	0	76.9	39-141	77.07	0.159	30	
Surr: Nitrobenzene-d5	67.95	10	100	0	67.9	37-140	70.33	3.45	30	
Surr: Phenol-d6	27.34	10	100	0	27.3	11-100	28.11	2.77	30	

The following samples were analyzed in this batch:

0410220-02E	0410220-03E	0410220-04E
0410220-05E	0410220-06E	0410220-07E
0410220-08E	0410220-09E	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **R24012** InstrumentID: **VOA1**

MBLK		Sample ID: VBLKW-1021		Test Code: SW8260		Units: µg/L		Analysis Date: 10/21/04 19:12		
Client ID:		Run ID:	VOA1_041021A	SeqNo:	559232	Prep Date:	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	44.83	5.0	50	0	89.7	71-126	0			
Surr: 4-Bromofluorobenzene	50.08	5.0	50	0	100	74-125	0			
Surr: Dibromofluoromethane	46.49	5.0	50	0	93	73-126	0			
Surr: Toluene-d8	46.73	5.0	50	0	93.5	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24012 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1021			Test Code: SW8260	Units: µg/L		Analysis Date: 10/21/04 18:16			
Client ID:		Run ID:	VOA1_041021A	SeqNo:	559231	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	55.79	5.0	50	0	112	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	51.07	5.0	50	0	102	72.4-121	0	0		
1,1,2-Trichloroethane	51.98	5.0	50	0	104	80-120	0	0		
1,1-Dichloroethane	52.46	5.0	50	0	105	76.9-120	0	0		
1,1-Dichloroethene	51.41	5.0	50	0	103	72.6-123	0	0		
1,2-Dichloroethane	48.33	5.0	50	0	96.7	80-120	0	0		
2-Butanone	103.4	10	100	0	103	69-131	0	0		
2-Chloroethyl vinyl ether	105.1	10	100	0	105	60-135	0	0		
2-Hexanone	115.3	10	100	0	115	55.6-126	0	0		
4-Methyl-2-pentanone	111.8	10	100	0	112	67.4-121	0	0		
Acetone	97.87	10	100	0	97.9	64.4-140	0	0		
Benzene	50.09	5.0	50	0	100	80-120	0	0		
Bromodichloromethane	50.97	5.0	50	0	102	80-120	0	0		
Bromoform	48.89	5.0	50	0	97.8	77.9-121	0	0		
Bromomethane	50.56	5.0	50	0	101	63.3-137	0	0		
Carbon disulfide	106.8	10	100	0	107	74.1-123	0	0		
Carbon tetrachloride	52.88	5.0	50	0	106	74.7-120	0	0		
Chlorobenzene	50.31	5.0	50	0	101	80-120	0	0		
Chloroethane	52.68	5.0	50	0	105	74.7-126	0	0		
Chloroform	53.22	5.0	50	0	106	80-120	0	0		
Chloromethane	50.56	5.0	50	0	101	64.5-132	0	0		
cis-1,3-Dichloropropene	50.03	5.0	50	0	100	80-120	0	0		
Dibromochloromethane	48.36	5.0	50	0	96.7	80-120	0	0		
Ethylbenzene	51.24	5.0	50	0	102	80-120	0	0		
m,p-Xylene	104.6	10	100	0	105	80-120	0	0		
Methylene chloride	47.95	10	50	0	95.9	76.2-120	0	0		
Styrene	52.28	5.0	50	0	105	80-120	0	0		
Tetrachloroethene	52.26	5.0	50	0	105	68.5-130	0	0		
Toluene	52.86	5.0	50	0	106	80-120	0	0		
trans-1,3-Dichloropropene	50.98	5.0	50	0	102	80-120	0	0		
Trichloroethene	49.5	5.0	50	0	99	78.9-120	0	0		
Vinyl acetate	120.7	10	100	0	121	62.4-133	0	0		
Vinyl chloride	50.89	2.0	50	0	102	72.7-128	0	0		
Xylenes, Total	156.8	15	150	0	105	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	45.91	5.0	50	0	91.8	71-126	0	0		
Surr: 4-Bromofluorobenzene	50.07	5.0	50	0	100	74-125	0	0		
Surr: Dibromofluoromethane	48.93	5.0	50	0	97.9	73-126	0	0		
Surr: Toluene-d8	51.38	5.0	50	0	103	75-125	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **R24012** InstrumentID: **VOA1**

MS	Sample ID: 0410247-01AMS			Test Code: SW8260	Units: µg/L		Analysis Date: 10/21/04 21:57			
Client ID:		Run ID:	VOA1_041021A	SeqNo:	559238	Prep Date:	DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1285	120	1250	0	103	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	1218	120	1250	0	97.4	72.4-121	0	0		
1,1,2-Trichloroethane	1279	120	1250	0	102	80-120	0	0		
1,1-Dichloroethane	1187	120	1250	0	95	76.9-120	0	0		
1,1-Dichloroethene	1147	120	1250	0	91.8	72.6-123	0	0		
1,2-Dichloroethane	1182	120	1250	0	94.5	80-120	0	0		
2-Butanone	2217	250	2500	0	88.7	69-131	0	0		
2-Chloroethyl vinyl ether	2633	250	2500	0	105	60-135	0	0		
2-Hexanone	2413	250	2500	0	96.5	55.6-126	0	0		
4-Methyl-2-pentanone	2423	250	2500	0	96.9	67.4-121	0	0		
Acetone	2221	250	2500	0	88.8	64.4-140	0	0		
Benzene	1196	120	1250	0	95.7	80-120	0	0		
Bromodichloromethane	1300	120	1250	0	104	80-120	0	0		
Bromoform	1167	120	1250	0	93.4	77.9-121	0	0		
Bromomethane	1244	120	1250	0	99.5	63.3-137	0	0		
Carbon disulfide	2370	250	2500	0	94.8	74.1-123	0	0		
Carbon tetrachloride	1274	120	1250	0	102	74.7-120	0	0		
Chlorobenzene	1261	120	1250	0	101	80-120	0	0		
Chloroethane	1288	120	1250	0	103	74.7-126	0	0		
Chloroform	1317	120	1250	85.95	98.5	80-120	0	0		
Chloromethane	1258	120	1250	0	101	64.5-132	0	0		
cis-1,3-Dichloropropene	1242	120	1250	0	99.4	80-120	0	0		
Dibromochloromethane	1201	120	1250	0	96.1	80-120	0	0		
Ethylbenzene	1256	120	1250	0	100	80-120	0	0		
m,p-Xylene	2490	250	2500	0	99.6	80-120	0	0		
Methylene chloride	1194	250	1250	0	95.5	76.2-120	0	0		
Styrene	1284	120	1250	0	103	80-120	0	0		
Tetrachloroethene	1226	120	1250	0	98.1	68.5-130	0	0		
Toluene	1236	120	1250	0	98.9	80-120	0	0		
trans-1,3-Dichloropropene	1262	120	1250	0	101	80-120	0	0		
Trichloroethene	1232	120	1250	0	98.6	78.9-120	0	0		
Vinyl acetate	2206	250	2500	0	88.2	62.4-133	0	0		
Vinyl chloride	1260	50	1250	0	101	72.7-128	0	0		
Xylenes, Total	3762	380	3750	0	100	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	1138	120	1250	0	91.1	71-126	0	0		
Surr: 4-Bromofluorobenzene	1224	120	1250	0	98	74-125	0	0		
Surr: Dibromofluoromethane	1156	120	1250	0	92.5	73-126	0	0		
Surr: Toluene-d8	1180	120	1250	0	94.4	75-125	0	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24012 InstrumentID: VOA1

MSD	Sample ID: 0410247-01AMSD			Test Code: SW8260	Units: µg/L		Analysis Date: 10/21/04 22:24			
Client ID:		Run ID:	VOA1_041021A	SeqNo:	559239	Prep Date:	DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1287	120	1250	0	103	75.2-120	1285	0.139	20	
1,1,2,2-Tetrachloroethane	1191	120	1250	0	95.3	72.4-121	1218	2.22	20	
1,1,2-Trichloroethane	1251	120	1250	0	100	80-120	1279	2.24	20	
1,1-Dichloroethane	1276	120	1250	0	102	76.9-120	1187	7.25	20	
1,1-Dichloroethene	1187	120	1250	0	94.9	72.6-123	1147	3.37	20	
1,2-Dichloroethane	1256	120	1250	0	100	80-120	1182	6.09	20	
2-Butanone	2386	250	2500	0	95.4	69-131	2217	7.34	20	
2-Chloroethyl vinyl ether	2623	250	2500	0	105	60-135	2633	0.363	20	
2-Hexanone	2346	250	2500	0	93.9	55.6-126	2413	2.8	20	
4-Methyl-2-pentanone	2440	250	2500	0	97.6	67.4-121	2423	0.69	20	
Acetone	2414	250	2500	0	96.6	64.4-140	2221	8.33	20	
Benzene	1217	120	1250	0	97.4	80-120	1196	1.74	20	
Bromodichloromethane	1280	120	1250	0	102	80-120	1300	1.56	20	
Bromoform	1158	120	1250	0	92.7	77.9-121	1167	0.803	20	
Bromomethane	1265	120	1250	0	101	63.3-137	1244	1.71	20	
Carbon disulfide	2622	250	2500	0	105	74.1-123	2370	10.1	20	
Carbon tetrachloride	1268	120	1250	0	101	74.7-120	1274	0.497	20	
Chlorobenzene	1230	120	1250	0	98.4	80-120	1261	2.52	20	
Chloroethane	1381	120	1250	0	110	74.7-126	1288	6.92	20	
Chloroform	1411	120	1250	85.95	106	80-120	1317	6.83	20	
Chloromethane	1265	120	1250	0	101	64.5-132	1258	0.485	20	
cis-1,3-Dichloropropene	1256	120	1250	0	100	80-120	1242	1.1	20	
Dibromochloromethane	1199	120	1250	0	95.9	80-120	1201	0.213	20	
Ethylbenzene	1206	120	1250	0	96.5	80-120	1256	4.04	20	
m,p-Xylene	2336	250	2500	0	93.4	80-120	2490	6.41	20	
Methylene chloride	1286	250	1250	0	103	76.2-120	1194	7.43	20	
Styrene	1293	120	1250	0	103	80-120	1284	0.68	20	
Tetrachloroethene	1227	120	1250	0	98.2	68.5-130	1226	0.0961	20	
Toluene	1194	120	1250	0	95.5	80-120	1236	3.44	20	
trans-1,3-Dichloropropene	1291	120	1250	0	103	80-120	1262	2.2	20	
Trichloroethene	1249	120	1250	0	99.9	78.9-120	1232	1.35	20	
Vinyl acetate	2436	250	2500	0	97.4	62.4-133	2206	9.89	20	
Vinyl chloride	1328	50	1250	0	106	72.7-128	1260	5.29	20	
Xylenes, Total	3640	380	3750	0	97.1	80-120	3762	3.31	20	
Surr: 1,2-Dichloroethane-d4	1185	120	1250	0	94.8	71-126	1138	3.99	20	
Surr: 4-Bromofluorobenzene	1256	120	1250	0	101	74-125	1224	2.58	20	
Surr: Dibromofluoromethane	1190	120	1250	0	95.2	73-126	1156	2.88	20	
Surr: Toluene-d8	1193	120	1250	0	95.4	75-125	1180	1.14	20	

The following samples were analyzed in this batch:

0410220-01A 0410220-02A 0410220-03A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24028 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-1022	Test Code: SW8260		Units: µg/L		Analysis Date: 10/22/04 14:06		
Client ID:		Run ID:	VOA1_041022A	SeqNo:	559635	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	45.82	5.0	50	0	91.6	71-126	0	
Surr: 4-Bromofluorobenzene	50.03	5.0	50	0	100	74-125	0	
Surr: Dibromofluoromethane	46.65	5.0	50	0	93.3	73-126	0	
Surr: Toluene-d8	48.36	5.0	50	0	96.7	75-125	0	

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CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **R24028** InstrumentID: **VOA1**

LCS	Sample ID: VLCSW-1022	Test Code: SW8260		Units: µg/L		Analysis Date: 10/22/04 12:43		
Client ID:	Run ID: VOA1_041022A	SeqNo:	559634	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	48.58	5.0	50	0	97.2	75.2-120	0	
1,1,2,2-Tetrachloroethane	50.18	5.0	50	0	100	72.4-121	0	
1,1,2-Trichloroethane	52.57	5.0	50	0	105	80-120	0	
1,1-Dichloroethane	44.85	5.0	50	0	89.7	76.9-120	0	
1,1-Dichloroethene	47.03	5.0	50	0	94.1	72.6-123	0	
1,2-Dichloroethane	46.6	5.0	50	0	93.2	80-120	0	
2-Butanone	92.52	10	100	0	92.5	69-131	0	
2-Chloroethyl vinyl ether	100.9	10	100	0	101	60-135	0	
2-Hexanone	102.2	10	100	0	102	55.6-126	0	
4-Methyl-2-pentanone	102.7	10	100	0	103	67.4-121	0	
Acetone	87.93	10	100	0	87.9	64.4-140	0	
Benzene	48.38	5.0	50	0	96.8	80-120	0	
Bromodichloromethane	50.05	5.0	50	0	100	80-120	0	
Bromoform	47.72	5.0	50	0	95.4	77.9-121	0	
Bromomethane	40.19	5.0	50	0	80.4	63.3-137	0	
Carbon disulfide	95.13	10	100	0	95.1	74.1-123	0	
Carbon tetrachloride	50.08	5.0	50	0	100	74.7-120	0	
Chlorobenzene	49.95	5.0	50	0	99.9	80-120	0	
Chloroethane	48.36	5.0	50	0	96.7	74.7-126	0	
Chloroform	47.04	5.0	50	0	94.1	80-120	0	
Chloromethane	44.32	5.0	50	0	88.6	64.5-132	0	
cis-1,3-Dichloropropene	52.63	5.0	50	0	105	80-120	0	
Dibromochloromethane	48.36	5.0	50	0	96.7	80-120	0	
Ethylbenzene	49.23	5.0	50	0	98.5	80-120	0	
m,p-Xylene	100.5	10	100	0	101	80-120	0	
Methylene chloride	46.51	10	50	0	93	76.2-120	0	
Styrene	50.5	5.0	50	0	101	80-120	0	
Tetrachloroethene	50.47	5.0	50	0	101	68.5-130	0	
Toluene	50.57	5.0	50	0	101	80-120	0	
trans-1,3-Dichloropropene	53.12	5.0	50	0	106	80-120	0	
Trichloroethene	48.48	5.0	50	0	97	78.9-120	0	
Vinyl acetate	107.5	10	100	0	108	62.4-133	0	
Vinyl chloride	46.92	2.0	50	0	93.8	72.7-128	0	
Xylenes, Total	150.7	15	150	0	100	80-120	0	
Surr: 1,2-Dichloroethane-d4	41.45	5.0	50	0	82.9	71-126	0	
Surr: 4-Bromofluorobenzene	48.87	5.0	50	0	97.7	74-125	0	
Surr: Dibromofluoromethane	43.6	5.0	50	0	87.2	73-126	0	
Surr: Toluene-d8	49.7	5.0	50	0	99.4	75-125	0	

ND - Not Detected at the Reporting Limit

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U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: **R24028** InstrumentID: **VOA1**

MS	Sample ID: 0410257-01CMS			Test Code: SW8260	Units: µg/L		Analysis Date: 10/22/04 15:29			
Client ID:		Run ID:	VOA1_041022A	SeqNo:	559637	Prep Date:	DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1024	100	1000	0	102	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	973.1	100	1000	0	97.3	72.4-121	0	0		
1,1,2-Trichloroethane	997	100	1000	0	99.7	80-120	0	0		
1,1-Dichloroethane	913.7	100	1000	0	91.4	76.9-120	0	0		
1,1-Dichloroethene	912.8	100	1000	0	91.3	72.6-123	0	0		
1,2-Dichloroethane	972.9	100	1000	0	97.3	80-120	0	0		
2-Butanone	1780	200	2000	113.8	83.3	69-131	0	0		
2-Chloroethyl vinyl ether	1924	200	2000	0	96.2	60-135	0	0		
2-Hexanone	1933	200	2000	0	96.6	55.6-126	0	0		
4-Methyl-2-pentanone	2005	200	2000	0	100	67.4-121	0	0		
Acetone	1596	200	2000	0	79.8	64.4-140	0	0		
Benzene	967.2	100	1000	49.63	91.8	80-120	0	0		
Bromodichloromethane	1024	100	1000	0	102	80-120	0	0		
Bromoform	980.7	100	1000	0	98.1	77.9-121	0	0		
Bromomethane	787.3	100	1000	0	78.7	63.3-137	0	0		
Carbon disulfide	1939	200	2000	0	96.9	74.1-123	0	0		
Carbon tetrachloride	1004	100	1000	0	100	74.7-120	0	0		
Chlorobenzene	956.2	100	1000	0	95.6	80-120	0	0		
Chloroethane	904.6	100	1000	0	90.5	74.7-126	0	0		
Chloroform	967.6	100	1000	0	96.8	80-120	0	0		
Chloromethane	778.3	100	1000	0	77.8	64.5-132	0	0		
cis-1,3-Dichloropropene	972.7	100	1000	0	97.3	80-120	0	0		
Dibromochloromethane	971.6	100	1000	0	97.2	80-120	0	0		
Ethylbenzene	3108	100	1000	2225	88.3	80-120	0	0		
m,p-Xylene	2460	200	2000	588.1	93.6	80-120	0	0		
Methylene chloride	939.8	200	1000	44.38	89.5	76.2-120	0	0		
Styrene	1023	100	1000	0	102	80-120	0	0		
Tetrachloroethene	972.4	100	1000	0	97.2	68.5-130	0	0		
Toluene	978.8	100	1000	11.65	96.7	80-120	0	0		
trans-1,3-Dichloropropene	990.1	100	1000	0	99	80-120	0	0		
Trichloroethene	895.4	100	1000	0	89.5	78.9-120	0	0		
Vinyl acetate	2282	200	2000	0	114	62.4-133	0	0		
Vinyl chloride	863.6	40	1000	0	86.4	72.7-128	0	0		
Xylenes, Total	3487	300	3000	602	96.2	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	892.1	100	1000	0	89.2	71-126	0	0		
Surr: 4-Bromofluorobenzene	967.1	100	1000	0	96.7	74-125	0	0		
Surr: Dibromofluoromethane	945.4	100	1000	0	94.5	73-126	0	0		
Surr: Toluene-d8	982.9	100	1000	0	98.3	75-125	0	0		

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CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24028 InstrumentID: VOA1

MSD	Sample ID: 0410257-01CMSD			Test Code: SW8260	Units: µg/L		Analysis Date: 10/22/04 15:57			
Client ID:		Run ID:	VOA1_041022A	SeqNo:	559638	Prep Date:	DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	994.8	100	1000	0	99.5	75.2-120	1024	2.89	20	
1,1,2,2-Tetrachloroethane	1018	100	1000	0	102	72.4-121	973.1	4.5	20	
1,1,2-Trichloroethane	1001	100	1000	0	100	80-120	997	0.384	20	
1,1-Dichloroethane	913.1	100	1000	0	91.3	76.9-120	913.7	0.0698	20	
1,1-Dichloroethene	904.8	100	1000	0	90.5	72.6-123	912.8	0.881	20	
1,2-Dichloroethane	990.7	100	1000	0	99.1	80-120	972.9	1.81	20	
2-Butanone	1858	200	2000	113.8	87.2	69-131	1780	4.28	20	
2-Chloroethyl vinyl ether	2035	200	2000	0	102	60-135	1924	5.62	20	
2-Hexanone	1980	200	2000	0	99	55.6-126	1933	2.42	20	
4-Methyl-2-pentanone	2127	200	2000	0	106	67.4-121	2005	5.92	20	
Acetone	1757	200	2000	0	87.9	64.4-140	1596	9.62	20	
Benzene	995.4	100	1000	49.63	94.6	80-120	967.2	2.87	20	
Bromodichloromethane	1052	100	1000	0	105	80-120	1024	2.67	20	
Bromoform	959.6	100	1000	0	96	77.9-121	980.7	2.17	20	
Bromomethane	813.2	100	1000	0	81.3	63.3-137	787.3	3.24	20	
Carbon disulfide	1954	200	2000	0	97.7	74.1-123	1939	0.769	20	
Carbon tetrachloride	1030	100	1000	0	103	74.7-120	1004	2.58	20	
Chlorobenzene	984.8	100	1000	0	98.5	80-120	956.2	2.94	20	
Chloroethane	989.1	100	1000	0	98.9	74.7-126	904.6	8.93	20	
Chloroform	974.5	100	1000	0	97.4	80-120	967.6	0.708	20	
Chloromethane	850.8	100	1000	0	85.1	64.5-132	778.3	8.89	20	
cis-1,3-Dichloropropene	1027	100	1000	0	103	80-120	972.7	5.38	20	
Dibromochloromethane	975.3	100	1000	0	97.5	80-120	971.6	0.381	20	
Ethylbenzene	3086	100	1000	2225	86.1	80-120	3108	0.706	20	
m,p-Xylene	2516	200	2000	588.1	96.4	80-120	2460	2.28	20	
Methylene chloride	984.7	200	1000	44.38	94	76.2-120	939.8	4.67	20	
Styrene	987.2	100	1000	0	98.7	80-120	1023	3.6	20	
Tetrachloroethene	975.8	100	1000	0	97.6	68.5-130	972.4	0.344	20	
Toluene	965.9	100	1000	11.65	95.4	80-120	978.8	1.32	20	
trans-1,3-Dichloropropene	1036	100	1000	0	104	80-120	990.1	4.57	20	
Trichloroethene	954.4	100	1000	0	95.4	78.9-120	895.4	6.38	20	
Vinyl acetate	2303	200	2000	0	115	62.4-133	2282	0.895	20	
Vinyl chloride	933.4	40	1000	0	93.3	72.7-128	863.6	7.76	20	
Xylenes, Total	3519	300	3000	602	97.2	80-120	3487	0.912	20	
Surr: 1,2-Dichloroethane-d4	881.4	100	1000	0	88.1	71-126	892.1	1.21	20	
Surr: 4-Bromofluorobenzene	987.9	100	1000	0	98.8	74-125	967.1	2.13	20	
Surr: Dibromofluoromethane	902.1	100	1000	0	90.2	73-126	945.4	4.68	20	
Surr: Toluene-d8	980.1	100	1000	0	98	75-125	982.9	0.281	20	

The following samples were analyzed in this batch:

0410220-03A	0410220-04A	0410220-05A
0410220-06A	0410220-07A	0410220-08A
0410220-09A		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24032 InstrumentID: VOA2

MBLK Sample ID: VBLKW-1024 Test Code: SW8260 Units: µg/L Analysis Date: 10/24/04 11:58

Client ID: Run ID: VOA2_041024A SeqNo: 559723 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	ND		5.0							
Ethylbenzene	ND		5.0							
Toluene	ND		5.0							
Surr: 1,2-Dichloroethane-d4	44.54	5.0	50	0	89.1	71-126		0		
Surr: 4-Bromofluorobenzene	43.11	5.0	50	0	86.2	74-125		0		
Surr: Dibromofluoromethane	45.92	5.0	50	0	91.8	73-126		0		
Surr: Toluene-d8	44.5	5.0	50	0	89	75-125		0		

LCS Sample ID: VLCSW-1024 Test Code: SW8260 Units: µg/L Analysis Date: 10/24/04 11:07

Client ID: Run ID: VOA2_041024A SeqNo: 559722 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	47.83	5.0	50	0	95.7	80-120		0		
Ethylbenzene	48.43	5.0	50	0	96.9	80-120		0		
Toluene	46.89	5.0	50	0	93.8	80-120		0		
Surr: 1,2-Dichloroethane-d4	40.22	5.0	50	0	80.4	71-126		0		
Surr: 4-Bromofluorobenzene	44.71	5.0	50	0	89.4	74-125		0		
Surr: Dibromofluoromethane	41.98	5.0	50	0	84	73-126		0		
Surr: Toluene-d8	44.82	5.0	50	0	89.6	75-125		0		

MS Sample ID: 0410241-01AMS Test Code: SW8260 Units: µg/L Analysis Date: 10/24/04 17:02

Client ID: Run ID: VOA2_041024A SeqNo: 559734 Prep Date: DF: 25

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	4651	120	1250	3383	101	80-120		0		
Ethylbenzene	1284	120	1250	61.09	97.9	80-120		0		
Toluene	1256	120	1250	50	96.5	80-120		0		
Surr: 1,2-Dichloroethane-d4	1020	120	1250	0	81.6	71-126		0		
Surr: 4-Bromofluorobenzene	1109	120	1250	0	88.7	74-125		0		
Surr: Dibromofluoromethane	1076	120	1250	0	86	73-126		0		
Surr: Toluene-d8	1127	120	1250	0	90.2	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24032 InstrumentID: VOA2

MSD	Sample ID: 0410241-01AMSD			Test Code: SW8260		Units: µg/L		Analysis Date: 10/24/04 17:28		
Client ID:		Run ID:	VOA2_041024A	SeqNo:	559735	Prep Date:	DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	4589	120	1250	3383	96.5	80-120	4651	1.34	20	
Ethylbenzene	1264	120	1250	61.09	96.2	80-120	1284	1.61	20	
Toluene	1235	120	1250	50	94.8	80-120	1256	1.66	20	
Surr: 1,2-Dichloroethane-d4	1024	120	1250	0	81.9	71-126	1020	0.366	20	
Surr: 4-Bromofluorobenzene	1107	120	1250	0	88.6	74-125	1109	0.137	20	
Surr: Dibromofluoromethane	1068	120	1250	0	85.5	73-126	1076	0.686	20	
Surr: Toluene-d8	1126	120	1250	0	90.1	75-125	1127	0.0855	20	

The following samples were analyzed in this batch:

0410220-04A 0410220-05A 0410220-06A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R23995 InstrumentID: IC201

MBLK Sample ID: WBLKW1-102004 Test Code: E300 Units: mg/L Analysis Date: 10/20/04 17:28

Client ID: Run ID: IC201_041020A SeqNo: 558903 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.19	0.10	5	0	104	80-120	0			

LCS Sample ID: WLCSW1-102004 Test Code: E300 Units: mg/L Analysis Date: 10/20/04 17:57

Client ID: Run ID: IC201_041020A SeqNo: 558904 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.96	0.50	10	0	89.6	80-120	0			
Fluoride	2	0.10	2	0	100	80-120	0			
Sulfate	9.78	1.0	10	0	97.8	80-120	0			
Nitrate/Nitrite (as N)	3.89	0.10	0	0	0	80-120	0			
Surr: Dichloroacetic acid (surr)	5.43	0.10	5	0	109	80-120	0			

LCSD Sample ID: WLCSDW1-10200 Test Code: E300 Units: mg/L Analysis Date: 10/20/04 18:25

Client ID: Run ID: IC201_041020A SeqNo: 558905 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.98	0.50	10	0	89.8	80-120	8.96	0.223	20	
Fluoride	2.01	0.10	2	0	100	80-120	2	0.499	20	
Sulfate	9.74	1.0	10	0	97.4	80-120	9.78	0.41	20	
Nitrate/Nitrite (as N)	3.97	0.10	0	0	0	80-120	3.89	2.04	20	
Surr: Dichloroacetic acid (surr)	5.5	0.10	5	0	110	80-120	5.43	1.28	20	

MS Sample ID: 0410219-01AMS Test Code: E300 Units: mg/L Analysis Date: 10/20/04 19:51

Client ID: Run ID: IC201_041020A SeqNo: 558908 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	67.53	0.50	10	55.31	122	75-125	0			EO
Fluoride	2.45	0.10	2	0.32	106	75-125	0			
Sulfate	135.6	1.0	10	124.2	114	75-125	0			EO
Nitrate/Nitrite (as N)	4.24	0.10	4	0.1	104	75-125	0			
Surr: Dichloroacetic acid (surr)	5.39	0.10	5	0	108	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R23995 InstrumentID: IC201

MSD	Sample ID: 0410219-01AMSD		Test Code: E300		Units: mg/L		Analysis Date: 10/20/04 20:19			
Client ID:	Run ID: IC201_041020A		SeqNo: 558909		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	67.02	0.50	10	55.31	117	75-125	67.53	0.758	20	EO
Fluoride	2.36	0.10	2	0.32	102	75-125	2.45	3.74	20	
Sulfate	136.1	1.0	10	124.2	120	75-125	135.6	0.383	20	EO
Nitrate/Nitrite (as N)	4.1	0.10	4	0.1	100	75-125	4.24	3.36	20	
Surr: Dichloroacetic acid (surr)	5.46	0.10	5	0	109	80-120	5.39	1.29	20	
DUP	Sample ID: 0410219-01ADUP		Test Code: E300		Units: mg/L		Analysis Date: 10/20/04 19:22			
Client ID:	Run ID: IC201_041020A		SeqNo: 558907		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	55.68	0.50	0	0	0	0-0	55.31	0.667	20	E
Fluoride	0.32	0.10	0	0	0	0-0	0.32	0	20	
Sulfate	123.9	1.0	0	0	0	0-0	124.2	0.202	20	E
Nitrate/Nitrite (as N)	0.1	0.10	0	0	0	0-0	0.1	0	20	
Surr: Dichloroacetic acid (surr)	5.49	0.10	5	0	110	80-120	5.36	2.4	20	
DUP	Sample ID: 0410220-07BDUP		Test Code: E300		Units: mg/L		Analysis Date: 10/21/04 11:32			
Client ID:	Run ID: IC201_041020A		SeqNo: 558919		Prep Date:		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	127	50	0	0	0	0-0	125	1.59	20	
Fluoride	4	10	0	0	0	0-0	4	0	20	J
Sulfate	1416	100	0	0	0	0-0	1407	0.638	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	558	10	500	0	112	80-120	551	1.26	20	
DUP	Sample ID: 0410220-09BDUP		Test Code: E300		Units: mg/L		Analysis Date: 10/21/04 16:45			
Client ID:	Run ID: IC201_041020A		SeqNo: 558927		Prep Date:		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	87	50	0	0	0	0-0	87	0	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1966	100	0	0	0	0-0	1962	0.204	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	556	10	500	0	111	80-120	544	2.18	20	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R23995 InstrumentID: IC201

DUP	Sample ID: 0410220-04BDUP	Test Code: E300		Units: mg/L		Analysis Date: 10/21/04 4:24			
Client ID:	MW-48	Run ID:	IC201_041020A	SeqNo:	558937	Prep Date:	DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Chloride	402	50	0	0	0	0-0	404	0.496	20
Fluoride	ND	10	0	0	0	0-0	0	0	20
Sulfate	265	100	0	0	0	0-0	264	0.378	20
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20
Surr: Dichloroacetic acid (surr)	546	10	500	0	109	80-120	547	0.183	20

The following samples were analyzed in this batch:

0410220-01B	0410220-02B	0410220-03B
0410220-04B	0410220-05B	0410220-06B
0410220-07B	0410220-08B	0410220-09B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24031 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-102204		Test Code: E300		Units: mg/L		Analysis Date: 10/22/04 18:25		
Client ID:		Run ID: IC201_041022A		SeqNo: 559674		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.16	0.10	5	0	103	80-120	0			

LCS		Sample ID: WLCSW1-102204		Test Code: E300		Units: mg/L		Analysis Date: 10/22/04 18:53		
Client ID:		Run ID: IC201_041022A		SeqNo: 559675		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.99	0.50	10	0	89.9	80-120	0			
Fluoride	1.91	0.10	2	0	95.5	80-120	0			
Sulfate	9.79	1.0	10	0	97.9	80-120	0			
Nitrate/Nitrite (as N)	3.96	0.10	0	0	0	80-120	0			
Surr: Dichloroacetic acid (surr)	5.55	0.10	5	0	111	80-120	0			

LCSD		Sample ID: WLCSDW1-10220		Test Code: E300		Units: mg/L		Analysis Date: 10/22/04 19:22		
Client ID:		Run ID: IC201_041022A		SeqNo: 559676		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.02	0.50	10	0	90.2	80-120	8.99	0.333	20	
Fluoride	1.95	0.10	2	0	97.5	80-120	1.91	2.07	20	
Sulfate	9.84	1.0	10	0	98.4	80-120	9.79	0.509	20	
Nitrate/Nitrite (as N)	3.9	0.10	0	0	0	80-120	3.96	1.53	20	
Surr: Dichloroacetic acid (surr)	5.04	0.10	5	0	101	80-120	5.55	9.63	20	

MS		Sample ID: 0410139-18BMS		Test Code: E300		Units: mg/L		Analysis Date: 10/23/04 2:58		
Client ID:		Run ID: IC201_041022A		SeqNo: 559694		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	3398	50	1000	2177	122	75-125	0			
Fluoride	196	10	200	0	98	75-125	0			
Sulfate	2398	100	1000	1308	109	75-125	0			
Nitrate/Nitrite (as N)	405	10	400	0	101	75-125	0			
Surr: Dichloroacetic acid (surr)	554	10	500	0	111	80-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24031 InstrumentID: IC201

MSD Sample ID: 0410139-18BMSD Test Code: E300 Units: mg/L Analysis Date: 10/23/04 3:27

Client ID: Run ID: IC201_041022A SeqNo: 559695 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	3299	50	1000	2177	112	75-125	3398	2.96	20	
Fluoride	193	10	200	0	96.5	75-125	196	1.54	20	
Sulfate	2376	100	1000	1308	107	75-125	2398	0.922	20	
Nitrate/Nitrite (as N)	392	10	400	0	98	75-125	405	3.26	20	
Surr: Dichloroacetic acid (surr)	557	10	500	0	111	80-120	554	0.54	20	

DUP Sample ID: 0410139-14BDUP Test Code: E300 Units: mg/L Analysis Date: 10/22/04 23:10

Client ID: Run ID: IC201_041022A SeqNo: 559684 Prep Date: DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1870	25	0	0	0	0-0	1870	0	20	
Fluoride	ND	5.0	0	0	0	0-0	0	0	20	
Sulfate	660	50	0	0	0	0-0	660	0	20	
Nitrate/Nitrite (as N)	ND	5.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	260.5	5.0	250	0	104	80-120	291	11.1	20	

DUP Sample ID: 0410139-18BDUP Test Code: E300 Units: mg/L Analysis Date: 10/23/04 2:30

Client ID: Run ID: IC201_041022A SeqNo: 559693 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2169	50	0	0	0	0-0	2177	0.368	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1306	100	0	0	0	0-0	1308	0.153	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	553	10	500	0	111	80-120	530	4.25	20	

The following samples were analyzed in this batch:

0410220-01B 0410220-02B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24154 InstrumentID: WetChem

MBLK		Sample ID: WBLKW1-102804		Test Code: E310.1		Units: mg/L		Analysis Date: 10/28/04 0:00		
Client ID:		Run ID: WETCHEM_041028A		SeqNo:	562906	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS		Sample ID: WLCSW1-102804		Test Code: E310.1		Units: mg/L		Analysis Date: 10/28/04 0:00		
Client ID:		Run ID: WETCHEM_041028A		SeqNo:	562907	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	1	0	0-0	0			
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0			
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0			
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0			

DUP		Sample ID: 0410220-01BDUP		Test Code: E310.1		Units: mg/L		Analysis Date: 10/28/04 0:00		
Client ID:		Run ID: WETCHEM_041028A		SeqNo:	562917	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	380.1	5.0	0	0	0	0-0	380.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	380.1	5.0	0	0	0	0-0	380.1	0	20	

The following samples were analyzed in this batch:

0410220-01B	0410220-02B	0410220-03B
0410220-04B	0410220-05B	0410220-06B
0410220-07B	0410220-08B	0410220-09B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410220
Project: Annual

QC BATCH REPORT

Batch ID: R24162 InstrumentID: UV-2101PC

MBLK		Sample ID: WBLKW1-102604		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo: 563051		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020								
LCS		Sample ID: WLCSW1-102604		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo: 563052		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.193	0.020	0.2	0	96.5	80-120	0			
MS		Sample ID: 0410252-26BMS		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo: 563067		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.1969	0.020	0.2	0.0039	96.5	75-125	0			
MSD		Sample ID: 0410252-26BMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo: 563068		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.1989	0.020	0.2	0.0039	97.5	75-125	0.1969	1.01	25	
DUP		Sample ID: 0410252-26BDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 10/28/04 0:00			
Client ID:		Run ID: UV-2101PC_041028B		SeqNo: 563070		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.0037	0.020	0	0	0	0-0	0.0039	0	20	J

The following samples were analyzed in this batch:

0410220-01D	0410220-02D	0410220-03D
0410220-04D	0410220-05D	0410220-06D
0410220-07D	0410220-08D	0410220-09D

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
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e-Lab, Inc.

3352-128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		e-Lab Project Manager		e-Lab Work Order #:											
Purchase Order	Project Name	A	Annual	B		C	04/02/20										
Work Order	Project Number	D		E		F											
Company Name	Bill To Company	F		G		H											
Send Report To	Invoice Attn.	I		J		K											
Address	Address	L		M		N											
City/State/Zip	City/State/Zip	O		P		Q											
Phone	Phone	R		S		T											
Fax	Fax	U		V		W											
e-Mail Address		X		Y		Z											
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	KWB-3L	10/9/04	10:15	L		3	X										
2	KWB-9		10:40														
3	KWB-11W-28		11:00				X										
4	KWB-4B		11:45				X										
5	RW-3		13:00				X										
6	RW-9		13:15				X										
7	RW-10		13:45				X										
8	RW-16		14:15				X										
9	RW-17		14:45				X										
10																	
Sampler(s) Please Print & Sign		Shipment Method:		Required Turnaround Time: (Check Box)										Results Due Date:			
<i>John</i>		Fed Ex		<input checked="" type="checkbox"/> 10 Wk Days		<input type="checkbox"/> 3 Wk Days		<input type="checkbox"/> 2 Wk Days		<input type="checkbox"/> 1 Wk Days		<input type="checkbox"/> 24 Hour					
Relinquished by:		Date: <u>10/9</u> Time: <u>16:15</u>		Received by:										Notes: <u>3 Coors</u>			
Relinquished by:		Date: <u>10/9</u> Time: <u>16:15</u>		Received by:										Notes: <u>3 Coors</u>			
Logged by (Laboratory):		Date: <u>10/9/04</u> Time: <u>00:00</u>		Date: <u>10/9/04</u> Time: <u>00:00</u>		e-Lab Cooler ID:		Cooler Temp:		QC Package: (Check Box Below)							
										<input type="checkbox"/> Standard QC		<input type="checkbox"/> Level III - Raw Data					
										<input type="checkbox"/> TRP LRC		<input type="checkbox"/> Level IV - TRP Level IV					
										<input type="checkbox"/> SW846 Methods/CUP like		<input type="checkbox"/> Other					
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₃ 7-Other 8-Other																	

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Note: Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.



e-Lab Analytical, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

November 02, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: Annual

Work Order : **0410185**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 6 samples on 10/16/2004 8:40:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 46.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Project: Annual
Work Order: 0410185

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0410185-01	KWB-1A	Water		10/15/2004 09:10	10/16/2004 08:40	<input type="checkbox"/>
0410185-02	KWB-1C	Water		10/15/2004 10:00	10/16/2004 08:40	<input type="checkbox"/>
0410185-03	KWB-10	Water		10/15/2004 10:15	10/16/2004 08:40	<input type="checkbox"/>
0410185-04	MW-58	Water		10/15/2004 10:30	10/16/2004 08:40	<input type="checkbox"/>
0410185-05	MW-57	Water		10/15/2004 14:30	10/16/2004 08:40	<input type="checkbox"/>
0410185-06	Trip Blank	Water		10/15/2004	10/16/2004 08:40	<input type="checkbox"/>

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Project: Annual
Work Order: 0410185

Case Narrative

Batch 10759 Seivolatiles MS/MSD was an unrelated sample.

Batch R23912 Volatiles MS/MSD was an unrelated sample.

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-01

Client Sample ID: KWB-1A
Collection Date: 10/15/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/26/2004 6:23:46 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0102	0.0100		mg/L	1	10/19/2004 6:50:00 PM
Arsenic	0.00620	0.00500		mg/L	1	10/18/2004 11:45:00 PM
Barium	0.00871	0.00500		mg/L	1	10/19/2004 6:50:00 PM
Beryllium	ND	0.00200		mg/L	1	10/18/2004 11:45:00 PM
Boron	0.931	0.200		mg/L	10	10/18/2004 10:32:00 PM
Cadmium	ND	0.00100		mg/L	1	10/19/2004 6:50:00 PM
Calcium	468	25.0		mg/L	50	10/18/2004 9:55:00 PM
Chromium	ND	0.00200		mg/L	1	10/19/2004 6:50:00 PM
Cobalt	0.00389	0.00200		mg/L	1	10/18/2004 11:45:00 PM
Copper	0.00725	0.00200		mg/L	1	10/18/2004 11:45:00 PM
Iron	2.08	0.200		mg/L	1	10/18/2004 11:45:00 PM
Lead	ND	0.00500		mg/L	1	10/19/2004 6:50:00 PM
Magnesium	382	10.0		mg/L	50	10/18/2004 9:55:00 PM
Manganese	0.261	0.0500		mg/L	10	10/18/2004 10:32:00 PM
Molybdenum	0.0173	0.00500		mg/L	1	10/18/2004 11:45:00 PM
Nickel	0.0195	0.00500		mg/L	1	10/18/2004 11:45:00 PM
Potassium	1.28	0.200		mg/L	1	10/19/2004 6:50:00 PM
Selenium	0.00504	0.00500		mg/L	1	10/18/2004 11:45:00 PM
Silver	ND	0.00500		mg/L	1	10/19/2004 6:50:00 PM
Sodium	267	10.0		mg/L	50	10/18/2004 9:55:00 PM
Vanadium	0.0201	0.00500		mg/L	1	10/18/2004 11:45:00 PM
Zinc	0.0184	0.00500		mg/L	1	10/18/2004 11:45:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/30/2004 11:25:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/30/2004 11:25:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
2-Methylphenol	ND	10		µg/L	1	10/30/2004 11:25:00 AM
2-Nitroaniline	ND	10		µg/L	1	10/30/2004 11:25:00 AM
2-Nitrophenol	ND	10		µg/L	1	10/30/2004 11:25:00 AM
3-Nitroaniline	ND	10		µg/L	1	10/30/2004 11:25:00 AM
4-Methylphenol	ND	10		µg/L	1	10/30/2004 11:25:00 AM
4-Nitroaniline	ND	10		µg/L	1	10/30/2004 11:25:00 AM
4-Nitrophenol	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Acenaphthene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Acenaphthylene	ND	10		µg/L	1	10/30/2004 11:25:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-01

Client Sample ID: KWB-1A
Collection Date: 10/15/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Anthracene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Benz(a)anthracene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Benzidine	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Hexachloroethane	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Isophorone	ND	10		µg/L	1	10/30/2004 11:25:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/30/2004 11:25:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/30/2004 11:25:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Naphthalene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Nitrobenzene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Pentachlorophenol	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Phenanthrene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Phenol	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Pyrene	ND	10		µg/L	1	10/30/2004 11:25:00 AM
Surr: 2,4,6-Tribromophenol	106	39-153		%REC	1	10/30/2004 11:25:00 AM
Surr: 2-Fluorobiphenyl	96.5	40-147		%REC	1	10/30/2004 11:25:00 AM
Surr: 2-Fluorophenol	46.0	21-110		%REC	1	10/30/2004 11:25:00 AM
Surr: 4-Terphenyl-d14	107	39-141		%REC	1	10/30/2004 11:25:00 AM
Surr: Nitrobenzene-d5	94.7	37-140		%REC	1	10/30/2004 11:25:00 AM
Surr: Phenol-d6	29.5	11-100		%REC	1	10/30/2004 11:25:00 AM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/18/2004 8:43:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/18/2004 8:43:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/18/2004 8:43:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/18/2004 8:43:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/18/2004 8:43:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/18/2004 8:43:00 PM
2-Butanone	ND	10	µg/L	10/18/2004 8:43:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/18/2004 8:43:00 PM
2-Hexanone	ND	10	µg/L	10/18/2004 8:43:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/18/2004 8:43:00 PM
Acetone	ND	10	µg/L	10/18/2004 8:43:00 PM
Benzene	ND	5.0	µg/L	10/18/2004 8:43:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/18/2004 8:43:00 PM
Bromoform	ND	5.0	µg/L	10/18/2004 8:43:00 PM
Bromomethane	ND	5.0	µg/L	10/18/2004 8:43:00 PM
Carbon disulfide	ND	10	µg/L	10/18/2004 8:43:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/18/2004 8:43:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-01

Client Sample ID: KWB-1A
Collection Date: 10/15/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Chloroethane	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Chloroform	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Chloromethane	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
m,p-Xylene	ND	10		µg/L	1	10/18/2004 8:43:00 PM
Methylene chloride	ND	10		µg/L	1	10/18/2004 8:43:00 PM
Styrene	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Toluene	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/18/2004 8:43:00 PM
Vinyl acetate	ND	10		µg/L	1	10/18/2004 8:43:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/18/2004 8:43:00 PM
Xylenes, Total	ND	15		µg/L	1	10/18/2004 8:43:00 PM
Surr: 1,2-Dichloroethane-d4	82.5	71-126		%REC	1	10/18/2004 8:43:00 PM
Surr: 4-Bromofluorobenzene	91.2	74-125		%REC	1	10/18/2004 8:43:00 PM
Surr: Dibromofluoromethane	83.8	73-126		%REC	1	10/18/2004 8:43:00 PM
Surr: Toluene-d8	87.0	75-125		%REC	1	10/18/2004 8:43:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: LMD
Chloride	395	5.00	mg/L	10
Fluoride	0.890	0.100	mg/L	1
Sulfate	2,480	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	108	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	111	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	107	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	400	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	400	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-02

Client Sample ID: KWB-1C
Collection Date: 10/15/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/26/2004 6:37:33 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	10/19/2004 6:55:00 PM
Arsenic	0.00508	0.00500		mg/L	1	10/18/2004 11:50:00 PM
Barium	0.00926	0.00500		mg/L	1	10/19/2004 6:55:00 PM
Beryllium	ND	0.00200		mg/L	1	10/18/2004 11:50:00 PM
Boron	0.884	0.200		mg/L	10	10/18/2004 10:36:00 PM
Cadmium	ND	0.00100		mg/L	1	10/19/2004 6:55:00 PM
Calcium	438	25.0		mg/L	50	10/18/2004 10:00:00 PM
Chromium	ND	0.00200		mg/L	1	10/19/2004 6:55:00 PM
Cobalt	0.00469	0.00200		mg/L	1	10/18/2004 11:50:00 PM
Copper	0.00585	0.00200		mg/L	1	10/18/2004 11:50:00 PM
Iron	1.97	0.200		mg/L	1	10/18/2004 11:50:00 PM
Lead	ND	0.00500		mg/L	1	10/19/2004 6:55:00 PM
Magnesium	362	10.0		mg/L	50	10/18/2004 10:00:00 PM
Manganese	0.330	0.0500		mg/L	10	10/18/2004 10:36:00 PM
Molybdenum	0.0160	0.00500		mg/L	1	10/18/2004 11:50:00 PM
Nickel	0.0227	0.00500		mg/L	1	10/18/2004 11:50:00 PM
Potassium	1.24	0.200		mg/L	1	10/19/2004 6:55:00 PM
Selenium	ND	0.00500		mg/L	1	10/18/2004 11:50:00 PM
Silver	ND	0.00500		mg/L	1	10/19/2004 6:55:00 PM
Sodium	258	10.0		mg/L	50	10/18/2004 10:00:00 PM
Vanadium	0.0317	0.00500		mg/L	1	10/18/2004 11:50:00 PM
Zinc	0.0167	0.00500		mg/L	1	10/18/2004 11:50:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/30/2004 11:50:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/30/2004 11:50:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
2-Methylphenol	ND	10		µg/L	1	10/30/2004 11:50:00 AM
2-Nitroaniline	ND	10		µg/L	1	10/30/2004 11:50:00 AM
2-Nitrophenol	ND	10		µg/L	1	10/30/2004 11:50:00 AM
3-Nitroaniline	ND	10		µg/L	1	10/30/2004 11:50:00 AM
4-Methylphenol	ND	10		µg/L	1	10/30/2004 11:50:00 AM
4-Nitroaniline	ND	10		µg/L	1	10/30/2004 11:50:00 AM
4-Nitrophenol	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Acenaphthene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Acenaphthylene	ND	10		µg/L	1	10/30/2004 11:50:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-02

Client Sample ID: KWB-1C
Collection Date: 10/15/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Anthracene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Benz(a)anthracene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Benzidine	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Hexachloroethane	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Isophorone	ND	10		µg/L	1	10/30/2004 11:50:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/30/2004 11:50:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/30/2004 11:50:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Naphthalene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Nitrobenzene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Pentachlorophenol	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Phenanthrene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Phenol	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Pyrene	ND	10		µg/L	1	10/30/2004 11:50:00 AM
Surr: 2,4,6-Tribromophenol	104	39-153		%REC	1	10/30/2004 11:50:00 AM
Surr: 2-Fluorobiphenyl	96.2	40-147		%REC	1	10/30/2004 11:50:00 AM
Surr: 2-Fluorophenol	45.6	21-110		%REC	1	10/30/2004 11:50:00 AM
Surr: 4-Terphenyl-d14	104	39-141		%REC	1	10/30/2004 11:50:00 AM
Surr: Nitrobenzene-d5	94.4	37-140		%REC	1	10/30/2004 11:50:00 AM
Surr: Phenol-d6	29.4	11-100		%REC	1	10/30/2004 11:50:00 AM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
2-Butanone	ND	10		µg/L	1	10/18/2004 9:11:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	10/18/2004 9:11:00 PM
2-Hexanone	ND	10		µg/L	1	10/18/2004 9:11:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/18/2004 9:11:00 PM
Acetone	ND	10		µg/L	1	10/18/2004 9:11:00 PM
Benzene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Bromoform	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Bromomethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Carbon disulfide	ND	10		µg/L	1	10/18/2004 9:11:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-02

Client Sample ID: KWB-1C
Collection Date: 10/15/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Chloroethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Chloroform	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Chloromethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
m,p-Xylene	ND	10		µg/L	1	10/18/2004 9:11:00 PM
Methylene chloride	ND	10		µg/L	1	10/18/2004 9:11:00 PM
Styrene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Toluene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/18/2004 9:11:00 PM
Vinyl acetate	ND	10		µg/L	1	10/18/2004 9:11:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/18/2004 9:11:00 PM
Xylenes, Total	ND	15		µg/L	1	10/18/2004 9:11:00 PM
Surr: 1,2-Dichloroethane-d4	82.5	71-126		%REC	1	10/18/2004 9:11:00 PM
Surr: 4-Bromofluorobenzene	100	74-125		%REC	1	10/18/2004 9:11:00 PM
Surr: Dibromofluoromethane	82.8	73-126		%REC	1	10/18/2004 9:11:00 PM
Surr: Toluene-d8	90.1	75-125		%REC	1	10/18/2004 9:11:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: LMD
Chloride	321	5.00	mg/L	10
Fluoride	1.14	0.100	mg/L	1
Sulfate	2,360	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	110	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	111	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	440	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	440	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:
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 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-03

Client Sample ID: KWB-10
Collection Date: 10/15/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	10/26/2004 6:48:14 PM
ICP METALS, TOTAL			SW6020			
Aluminum	0.0686	0.0100		mg/L	1	10/19/2004 7:00:00 PM
Arsenic	0.0399	0.00500		mg/L	1	10/18/2004 11:55:00 PM
Barium	0.708	0.0500		mg/L	10	10/18/2004 10:41:00 PM
Beryllium	ND	0.00200		mg/L	1	10/18/2004 11:55:00 PM
Boron	0.319	0.0200		mg/L	1	10/18/2004 11:55:00 PM
Cadmium	ND	0.00100		mg/L	1	10/19/2004 7:00:00 PM
Calcium	136	5.00		mg/L	10	10/18/2004 10:41:00 PM
Chromium	ND	0.00200		mg/L	1	10/19/2004 7:00:00 PM
Cobalt	0.00477	0.00200		mg/L	1	10/18/2004 11:55:00 PM
Copper	ND	0.00200		mg/L	1	10/18/2004 11:55:00 PM
Iron	1.27	0.200		mg/L	1	10/18/2004 11:55:00 PM
Lead	0.0739	0.00500		mg/L	1	10/19/2004 7:00:00 PM
Magnesium	91.1	2.00		mg/L	10	10/18/2004 10:41:00 PM
Manganese	0.464	0.0500		mg/L	10	10/18/2004 10:41:00 PM
Molybdenum	ND	0.00500		mg/L	1	10/18/2004 11:55:00 PM
Nickel	0.0136	0.00500		mg/L	1	10/18/2004 11:55:00 PM
Potassium	0.307	0.200		mg/L	1	10/19/2004 7:00:00 PM
Selenium	ND	0.00500		mg/L	1	10/18/2004 11:55:00 PM
Silver	ND	0.00500		mg/L	1	10/19/2004 7:00:00 PM
Sodium	117	2.00		mg/L	10	10/18/2004 10:41:00 PM
Vanadium	ND	0.00500		mg/L	1	10/18/2004 11:55:00 PM
Zinc	ND	0.00500		mg/L	1	10/18/2004 11:55:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/30/2004 12:15:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/30/2004 12:15:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
2-Methylphenol	ND	10		µg/L	1	10/30/2004 12:15:00 PM
2-Nitroaniline	ND	10		µg/L	1	10/30/2004 12:15:00 PM
2-Nitrophenol	ND	10		µg/L	1	10/30/2004 12:15:00 PM
3-Nitroaniline	ND	10		µg/L	1	10/30/2004 12:15:00 PM
4-Methylphenol	ND	10		µg/L	1	10/30/2004 12:15:00 PM
4-Nitroaniline	ND	10		µg/L	1	10/30/2004 12:15:00 PM
4-Nitrophenol	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Acenaphthene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Acenaphthylene	ND	10		µg/L	1	10/30/2004 12:15:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-03

Client Sample ID: KWB-10
Collection Date: 10/15/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Anthracene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Benz(a)anthracene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Benzidine	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Hexachloroethane	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Isophorone	ND	10		µg/L	1	10/30/2004 12:15:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/30/2004 12:15:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/30/2004 12:15:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Naphthalene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Nitrobenzene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Pentachlorophenol	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Phenanthrene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Phenol	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Pyrene	ND	10		µg/L	1	10/30/2004 12:15:00 PM
Surr: 2,4,6-Tribromophenol	96.4	39-153		%REC	1	10/30/2004 12:15:00 PM
Surr: 2-Fluorobiphenyl	82.3	40-147		%REC	1	10/30/2004 12:15:00 PM
Surr: 2-Fluorophenol	44.7	21-110		%REC	1	10/30/2004 12:15:00 PM
Surr: 4-Terphenyl-d14	88.5	39-141		%REC	1	10/30/2004 12:15:00 PM
Surr: Nitrobenzene-d5	75.2	37-140		%REC	1	10/30/2004 12:15:00 PM
Surr: Phenol-d6	29.0	11-100		%REC	1	10/30/2004 12:15:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/18/2004 9:38:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/18/2004 9:38:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/18/2004 9:38:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/18/2004 9:38:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/18/2004 9:38:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/18/2004 9:38:00 PM
2-Butanone	ND	10	µg/L	10/18/2004 9:38:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/18/2004 9:38:00 PM
2-Hexanone	ND	10	µg/L	10/18/2004 9:38:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/18/2004 9:38:00 PM
Acetone	ND	10	µg/L	10/18/2004 9:38:00 PM
Benzene	ND	5.0	µg/L	10/18/2004 9:38:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/18/2004 9:38:00 PM
Bromoform	ND	5.0	µg/L	10/18/2004 9:38:00 PM
Bromomethane	ND	5.0	µg/L	10/18/2004 9:38:00 PM
Carbon disulfide	ND	10	µg/L	10/18/2004 9:38:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/18/2004 9:38:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-03

Client Sample ID: KWB-10
Collection Date: 10/15/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Chloroethane	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Chloroform	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Chloromethane	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
m,p-Xylene	ND	10		µg/L	1	10/18/2004 9:38:00 PM
Methylene chloride	ND	10		µg/L	1	10/18/2004 9:38:00 PM
Styrene	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Toluene	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/18/2004 9:38:00 PM
Vinyl acetate	ND	10		µg/L	1	10/18/2004 9:38:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/18/2004 9:38:00 PM
Xylenes, Total	ND	15		µg/L	1	10/18/2004 9:38:00 PM
Surr: 1,2-Dichloroethane-d4	87.3	71-126		%REC	1	10/18/2004 9:38:00 PM
Surr: 4-Bromofluorobenzene	96.1	74-125		%REC	1	10/18/2004 9:38:00 PM
Surr: Dibromofluoromethane	81.3	73-126		%REC	1	10/18/2004 9:38:00 PM
Surr: Toluene-d8	89.3	75-125		%REC	1	10/18/2004 9:38:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: LMD
Chloride	151	5.00	mg/L	10
Fluoride	0.970	0.100	mg/L	1
Sulfate	6.12	1.00	mg/L	1
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	113	80-120	%REC	10

ALKALINITY

	E310.1		Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	770	5.00	mg/L
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L
Alkalinity, Total (As CaCO ₃)	770	5.00	mg/L

CYANIDE, TOTAL

	E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-04

Client Sample ID: MW-58
Collection Date: 10/15/2004 10:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/26/2004 6:49:46 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.399	0.100		mg/L	10	10/18/2004 10:46:00 PM
Arsenic	0.0681	0.00500		mg/L	1	10/19/2004
Barium	0.537	0.0500		mg/L	10	10/18/2004 10:46:00 PM
Beryllium	ND	0.00200		mg/L	1	10/19/2004
Boron	0.403	0.0200		mg/L	1	10/19/2004
Cadmium	ND	0.00100		mg/L	1	10/19/2004 7:05:00 PM
Calcium	218	5.00		mg/L	10	10/18/2004 10:46:00 PM
Chromium	ND	0.00200		mg/L	1	10/19/2004 7:05:00 PM
Cobalt	0.00408	0.00200		mg/L	1	10/19/2004
Copper	0.00253	0.00200		mg/L	1	10/19/2004
Iron	6.94	0.200		mg/L	1	10/19/2004
Lead	0.00517	0.00500		mg/L	1	10/19/2004 7:05:00 PM
Magnesium	146	2.00		mg/L	10	10/18/2004 10:46:00 PM
Manganese	0.765	0.0500		mg/L	10	10/18/2004 10:46:00 PM
Molybdenum	ND	0.00500		mg/L	1	10/19/2004
Nickel	0.0113	0.00500		mg/L	1	10/19/2004
Potassium	0.341	0.200		mg/L	1	10/19/2004 7:05:00 PM
Selenium	0.00653	0.00500		mg/L	1	10/19/2004
Silver	ND	0.00500		mg/L	1	10/19/2004 7:05:00 PM
Sodium	87.3	2.00		mg/L	10	10/18/2004 10:46:00 PM
Vanadium	ND	0.00500		mg/L	1	10/19/2004
Zinc	0.00768	0.00500		mg/L	1	10/19/2004
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/30/2004 12:40:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/30/2004 12:40:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/30/2004 12:40:00 PM
2-Methylnaphthalene	33	10		µg/L	1	10/30/2004 12:40:00 PM
2-Methylphenol	ND	10		µg/L	1	10/30/2004 12:40:00 PM
2-Nitroaniline	ND	10		µg/L	1	10/30/2004 12:40:00 PM
2-Nitrophenol	ND	10		µg/L	1	10/30/2004 12:40:00 PM
3-Nitroaniline	ND	10		µg/L	1	10/30/2004 12:40:00 PM
4-Methylphenol	24	10		µg/L	1	10/30/2004 12:40:00 PM
4-Nitroaniline	ND	10		µg/L	1	10/30/2004 12:40:00 PM
4-Nitrophenol	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Acenaphthene	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Acenaphthylene	ND	10		µg/L	1	10/30/2004 12:40:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-04

Client Sample ID: MW-58
Collection Date: 10/15/2004 10:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Anthracene	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Benz(a)anthracene	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Benzidine	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Hexachloroethane	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Isophorone	ND	10		µg/L	1	10/30/2004 12:40:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/30/2004 12:40:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/30/2004 12:40:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Naphthalene	89	10		µg/L	1	10/30/2004 12:40:00 PM
Nitrobenzene	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Pentachlorophenol	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Phenanthrene	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Phenol	14	10		µg/L	1	10/30/2004 12:40:00 PM
Pyrene	ND	10		µg/L	1	10/30/2004 12:40:00 PM
Surr: 2,4,6-Tribromophenol	106	39-153		%REC	1	10/30/2004 12:40:00 PM
Surr: 2-Fluorobiphenyl	92.3	40-147		%REC	1	10/30/2004 12:40:00 PM
Surr: 2-Fluorophenol	40.3	21-110		%REC	1	10/30/2004 12:40:00 PM
Surr: 4-Terphenyl-d14	97.0	39-141		%REC	1	10/30/2004 12:40:00 PM
Surr: Nitrobenzene-d5	85.7	37-140		%REC	1	10/30/2004 12:40:00 PM
Surr: Phenol-d6	28.4	11-100		%REC	1	10/30/2004 12:40:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/18/2004 10:05:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/18/2004 10:05:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/18/2004 10:05:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/18/2004 10:05:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/18/2004 10:05:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/18/2004 10:05:00 PM
2-Butanone	ND	10	µg/L	10/18/2004 10:05:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/18/2004 10:05:00 PM
2-Hexanone	14	10	µg/L	10/18/2004 10:05:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/18/2004 10:05:00 PM
Acetone	ND	10	µg/L	10/18/2004 10:05:00 PM
Benzene	4,800	120	µg/L	25
Bromodichloromethane	ND	5.0	µg/L	10/18/2004 10:05:00 PM
Bromoform	ND	5.0	µg/L	10/18/2004 10:05:00 PM
Bromomethane	ND	5.0	µg/L	10/18/2004 10:05:00 PM
Carbon disulfide	ND	10	µg/L	10/18/2004 10:05:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/18/2004 10:05:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-04

Client Sample ID: MW-58
Collection Date: 10/15/2004 10:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Chloroethane	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Chloroform	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Chloromethane	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Ethylbenzene	610	120		µg/L	25	10/19/2004 3:44:00 PM
m,p-Xylene	530	250		µg/L	25	10/19/2004 3:44:00 PM
Methylene chloride	ND	10		µg/L	1	10/18/2004 10:05:00 PM
Styrene	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Toluene	490	120		µg/L	25	10/19/2004 3:44:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/18/2004 10:05:00 PM
Vinyl acetate	ND	10		µg/L	1	10/18/2004 10:05:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/18/2004 10:05:00 PM
Xylenes, Total	930	380		µg/L	25	10/19/2004 3:44:00 PM
Surr: 1,2-Dichloroethane-d4	81.5	71-126		%REC	1	10/18/2004 10:05:00 PM
Surr: 1,2-Dichloroethane-d4	83.6	71-126		%REC	25	10/19/2004 3:44:00 PM
Surr: 4-Bromofluorobenzene	96.9	74-125		%REC	1	10/18/2004 10:05:00 PM
Surr: 4-Bromofluorobenzene	91.1	74-125		%REC	25	10/19/2004 3:44:00 PM
Surr: Dibromofluoromethane	87.0	73-126		%REC	25	10/19/2004 3:44:00 PM
Surr: Dibromofluoromethane	78.3	73-126		%REC	1	10/18/2004 10:05:00 PM
Surr: Toluene-d8	93.9	75-125		%REC	1	10/18/2004 10:05:00 PM
Surr: Toluene-d8	90.5	75-125		%REC	25	10/19/2004 3:44:00 PM
ANIONS BY ION CHROMATOGRAPHY						
				E300		Analyst: LMD
Chloride	366	5.00		mg/L	10	10/17/2004 5:22:00 PM
Fluoride	1.11	0.100		mg/L	1	10/17/2004 11:40:00 AM
Sulfate	146	10.0		mg/L	10	10/17/2004 5:22:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	10/17/2004 11:40:00 AM
Surr: Dichloroacetic acid (surr)	103	80-120		%REC	1	10/17/2004 11:40:00 AM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	10	10/17/2004 5:22:00 PM
ALKALINITY						
				E310.1		Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	740	5.00		mg/L	1	10/26/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	10/26/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	10/26/2004
Alkalinity, Total (As CaCO ₃)	740	5.00		mg/L	1	10/26/2004
CYANIDE, TOTAL						
				E335.3		Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	10/22/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-05

Client Sample ID: MW-57
Collection Date: 10/15/2004 2:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	10/26/2004 6:54:25 PM
ICP METALS, TOTAL				SW6020		
Aluminum	16.2	1.00		mg/L	100	10/20/2004 5:25:00 PM
Arsenic	0.0306	0.00500		mg/L	1	10/19/2004 12:04:00 AM
Barium	0.440	0.0500		mg/L	10	10/18/2004 10:50:00 PM
Beryllium	ND	0.00200		mg/L	1	10/19/2004 12:04:00 AM
Boron	0.452	0.0200		mg/L	1	10/19/2004 12:04:00 AM
Cadmium	ND	0.00100		mg/L	1	10/19/2004 7:09:00 PM
Calcium	372	25.0		mg/L	50	10/18/2004 10:27:00 PM
Chromium	0.0131	0.00200		mg/L	1	10/19/2004 7:09:00 PM
Cobalt	0.00625	0.00200		mg/L	1	10/19/2004 12:04:00 AM
Copper	0.00821	0.00200		mg/L	1	10/19/2004 12:04:00 AM
Iron	12.9	0.200		mg/L	1	10/19/2004 12:04:00 AM
Lead	0.0110	0.00500		mg/L	1	10/19/2004 7:09:00 PM
Magnesium	98.6	2.00		mg/L	10	10/18/2004 10:50:00 PM
Manganese	1.18	0.0500		mg/L	10	10/18/2004 10:50:00 PM
Molybdenum	ND	0.00500		mg/L	1	10/19/2004 12:04:00 AM
Nickel	0.0192	0.00500		mg/L	1	10/19/2004 12:04:00 AM
Potassium	3.54	0.200		mg/L	1	10/19/2004 7:09:00 PM
Selenium	0.00517	0.00500		mg/L	1	10/19/2004 12:04:00 AM
Silver	ND	0.00500		mg/L	1	10/19/2004 7:09:00 PM
Sodium	101	2.00		mg/L	10	10/18/2004 10:50:00 PM
Vanadium	0.0218	0.00500		mg/L	1	10/19/2004 12:04:00 AM
Zinc	0.0489	0.00500		mg/L	1	10/19/2004 12:04:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	10/30/2004 1:06:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	10/30/2004 1:06:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
2-Methylphenol	ND	10		µg/L	1	10/30/2004 1:06:00 PM
2-Nitroaniline	ND	10		µg/L	1	10/30/2004 1:06:00 PM
2-Nitrophenol	ND	10		µg/L	1	10/30/2004 1:06:00 PM
3-Nitroaniline	ND	10		µg/L	1	10/30/2004 1:06:00 PM
4-Methylphenol	ND	10		µg/L	1	10/30/2004 1:06:00 PM
4-Nitroaniline	ND	10		µg/L	1	10/30/2004 1:06:00 PM
4-Nitrophenol	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Acenaphthene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Acenaphthylene	ND	10		µg/L	1	10/30/2004 1:06:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-05

Client Sample ID: MW-57
Collection Date: 10/15/2004 2:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Anthracene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Benz(a)anthracene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Benzidine	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Hexachloroethane	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Isophorone	ND	10		µg/L	1	10/30/2004 1:06:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	10/30/2004 1:06:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	10/30/2004 1:06:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Naphthalene	21	10		µg/L	1	10/30/2004 1:06:00 PM
Nitrobenzene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Pentachlorophenol	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Phenanthrene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Phenol	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Pyrene	ND	10		µg/L	1	10/30/2004 1:06:00 PM
Surr: 2,4,6-Tribromophenol	105	39-153		%REC	1	10/30/2004 1:06:00 PM
Surr: 2-Fluorobiphenyl	91.9	40-147		%REC	1	10/30/2004 1:06:00 PM
Surr: 2-Fluorophenol	45.7	21-110		%REC	1	10/30/2004 1:06:00 PM
Surr: 4-Terphenyl-d14	84.6	39-141		%REC	1	10/30/2004 1:06:00 PM
Surr: Nitrobenzene-d5	86.3	37-140		%REC	1	10/30/2004 1:06:00 PM
Surr: Phenol-d6	29.1	11-100		%REC	1	10/30/2004 1:06:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/18/2004 10:33:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/18/2004 10:33:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/18/2004 10:33:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/18/2004 10:33:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/18/2004 10:33:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/18/2004 10:33:00 PM
2-Butanone	ND	10	µg/L	10/18/2004 10:33:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/18/2004 10:33:00 PM
2-Hexanone	ND	10	µg/L	10/18/2004 10:33:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/18/2004 10:33:00 PM
Acetone	ND	10	µg/L	10/18/2004 10:33:00 PM
Benzene	100	5.0	µg/L	10/18/2004 10:33:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/18/2004 10:33:00 PM
Bromoform	ND	5.0	µg/L	10/18/2004 10:33:00 PM
Bromomethane	ND	5.0	µg/L	10/18/2004 10:33:00 PM
Carbon disulfide	ND	10	µg/L	10/18/2004 10:33:00 PM
Carbon tetrachloride	ND	5.0	µg/L	10/18/2004 10:33:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual
Lab ID: 0410185-05

Client Sample ID: MW-57
Collection Date: 10/15/2004 2:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Chloroethane	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Chloroform	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Chloromethane	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Ethylbenzene	160	5.0		µg/L	1	10/18/2004 10:33:00 PM
m,p-Xylene	26	10		µg/L	1	10/18/2004 10:33:00 PM
Methylene chloride	ND	10		µg/L	1	10/18/2004 10:33:00 PM
Styrene	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Toluene	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/18/2004 10:33:00 PM
Vinyl acetate	ND	10		µg/L	1	10/18/2004 10:33:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/18/2004 10:33:00 PM
Xylenes, Total	29	15		µg/L	1	10/18/2004 10:33:00 PM
Surr: 1,2-Dichloroethane-d4	81.0	71-126		%REC	1	10/18/2004 10:33:00 PM
Surr: 4-Bromofluorobenzene	97.2	74-125		%REC	1	10/18/2004 10:33:00 PM
Surr: Dibromofluoromethane	80.8	73-126		%REC	1	10/18/2004 10:33:00 PM
Surr: Toluene-d8	90.5	75-125		%REC	1	10/18/2004 10:33:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: LMD
Chloride	103	5.00		mg/L	10	10/17/2004 6:19:00 PM
Fluoride	0.350	0.100		mg/L	1	10/17/2004 12:08:00 PM
Sulfate	219	10.0		mg/L	10	10/17/2004 6:19:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	10/17/2004 12:08:00 PM
Surr: Dichloroacetic acid (surr)	106	80-120		%REC	1	10/17/2004 12:08:00 PM
Surr: Dichloroacetic acid (surr)	111	80-120		%REC	10	10/17/2004 6:19:00 PM
ALKALINITY						
			E310.1			Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	690	5.00		mg/L	1	10/26/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	10/26/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	10/26/2004
Alkalinity, Total (As CaCO ₃)	690	5.00		mg/L	1	10/26/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	10/22/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Nov 02 2004

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10745 InstrumentID: ICP4500

MLBK	Sample ID: MBLKW4-101804	Test Code: SW6020		Units: mg/L		Analysis Date: 10/18/04 21:46		
Client ID:	Run ID: ICP4500_041018A	SeqNo:	556770	Prep Date: 10/18/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	ND	0.010						
Arsenic	ND	0.0050						
Barium	ND	0.0050						
Beryllium	ND	0.0020						
Boron	ND	0.020						
Cadmium	ND	0.0020						
Calcium	ND	0.50						
Chromium	ND	0.0050						
Cobalt	ND	0.0050						
Copper	ND	0.0050						
Iron	ND	0.20						
Lead	ND	0.0050						
Magnesium	ND	0.20						
Manganese	ND	0.0050						
Molybdenum	ND	0.0050						
Nickel	ND	0.0050						
Potassium	ND	0.20						
Selenium	ND	0.0050						
Silver	ND	0.0050						
Sodium	0.08228	0.20						J
Vanadium	ND	0.0050						
Zinc	ND	0.0050						

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10745 InstrumentID: ICP4500

LCS	Sample ID: MLCSW4-101804	Test Code: SW6020		Units: mg/L		Analysis Date: 10/18/04 21:51			
Client ID:	Run ID: ICP4500_041018A	SeqNo:	556771	Prep Date: 10/18/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
Aluminum	0.04669	0.010	0.05	0	93.4	79-126	0	0	
Arsenic	0.04988	0.0050	0.05	0	99.8	80-121	0	0	
Barium	0.04485	0.0050	0.05	0	89.7	79.8-119	0	0	
Beryllium	0.05336	0.0020	0.05	0	107	78.9-120	0	0	
Boron	0.5437	0.020	0	-0.0009227	0	80-120	0	0	
Cadmium	0.05061	0.0020	0.05	0	101	79.1-119	0	0	
Calcium	4.856	0.50	5	0	97.1	80-121	0	0	
Chromium	0.04536	0.0050	0.05	0	90.7	79.3-121	0	0	
Cobalt	0.04566	0.0050	0.05	0	91.3	82-121	0	0	
Copper	0.04635	0.0050	0.05	0	92.7	81-120	0	0	
Iron	4.749	0.20	5	0	95	80-120	0	0	
Lead	0.04468	0.0050	0.05	0	89.4	80-118	0	0	
Magnesium	4.939	0.20	5	0	98.8	80-120	0	0	
Manganese	0.04541	0.0050	0.05	0	90.8	82-119	0	0	
Molybdenum	0.04485	0.0050	0.05	0	89.7	81-115	0	0	
Nickel	0.04612	0.0050	0.05	0	92.2	82-120	0	0	
Potassium	4.751	0.20	5	0	95	80-120	0	0	
Selenium	0.04808	0.0050	0.05	0	96.2	79.2-118	0	0	
Silver	0.04169	0.0050	0.05	0	83.4	80-117	0	0	
Sodium	4.803	0.20	5	0	96.1	80.6-119	0	0	
Vanadium	0.04532	0.0050	0.05	0	90.6	82.1-119	0	0	
Zinc	0.04717	0.0050	0.05	0	94.3	79-118	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10745 InstrumentID: ICP4500

MS	Sample ID: 0410166-08CMS	Test Code: SW6020		Units: mg/L		Analysis Date: 10/18/04 23:04		
Client ID:	Run ID: ICP4500_041018A	SeqNo:	556786	Prep Date: 10/18/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	0.04436	0.010	0.05	0.002056	84.6	79-126	0	
Arsenic	0.04845	0.0050	0.05	0.0009915	94.9	80-121	0	
Barium	0.04353	0.0050	0.05	0.0002264	86.6	79.8-119	0	
Beryllium	0.05366	0.0020	0.05	-0.00002272	107	78.9-120	0	
Boron	0.5394	0.020	0	-0.007361	0	80-120	0	
Cadmium	0.049	0.0020	0.05	-0.00003823	98.1	79.1-119	0	
Calcium	4.565	0.50	5	0.02736	90.8	80-121	0	
Chromium	0.04473	0.0050	0.05	0.000514	88.4	79.3-121	0	
Cobalt	0.04464	0.0050	0.05	-0.00002679	89.3	82-121	0	
Copper	0.04412	0.0050	0.05	0.000141	88	80-120	0	
Iron	4.698	0.20	5	0.0001478	94	80-120	0	
Lead	0.04349	0.0050	0.05	0.000007664	87	80-118	0	
Magnesium	4.73	0.20	5	0.01873	94.2	80-120	0	
Manganese	0.04549	0.0050	0.05	0.0004209	90.1	82-119	0	
Molybdenum	0.04299	0.0050	0.05	0.00002916	85.9	81-115	0	
Nickel	0.04496	0.0050	0.05	-0.0000699	90.1	82-120	0	
Potassium	4.514	0.20	5	-0.0651	91.6	80-120	0	
Selenium	0.04689	0.0050	0.05	-0.000123	94	79.2-118	0	
Silver	0.04055	0.0050	0.05	-0.0000227	81.1	80-117	0	
Sodium	4.629	0.20	5	0.05642	91.5	80.6-119	0	
Vanadium	0.04535	0.0050	0.05	0.0003537	90	82.1-119	0	
Zinc	0.04655	0.0050	0.05	0.0008419	91.4	79-118	0	

MSD	Sample ID: 0410166-08CMSD	Test Code: SW6020		Units: mg/L		Analysis Date: 10/18/04 23:22		
Client ID:	Run ID: ICP4500_041018A	SeqNo:	556789	Prep Date: 10/18/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic	0.04838	0.0050	0.05	0.0009915	94.8	80-121	0.04845	0.145 15
Beryllium	0.05038	0.0020	0.05	-0.00002272	101	78.9-120	0.05366	6.31 15
Boron	0.5021	0.020	0	-0.007361	0	80-120	0.5394	7.16 15
Cobalt	0.04509	0.0050	0.05	-0.00002679	90.2	82-121	0.04464	1 15
Copper	0.04537	0.0050	0.05	0.000141	90.5	81-120	0.04412	2.79 15
Iron	4.676	0.20	5	0.0001478	93.5	80-120	4.698	0.469 15
Magnesium	4.764	0.20	5	0.01873	94.9	80-120	4.73	0.716 15
Molybdenum	0.04425	0.0050	0.05	0.00002916	88.4	81-115	0.04299	2.89 15
Nickel	0.04538	0.0050	0.05	-0.0000699	90.9	82-120	0.04496	0.93 15
Selenium	0.05009	0.0050	0.05	-0.000123	100	79.2-118	0.04689	6.6 15
Vanadium	0.04433	0.0050	0.05	0.0003537	88	82.1-119	0.04535	2.27 15
Zinc	0.04661	0.0050	0.05	0.0008419	91.5	79-118	0.04655	0.129 15

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10745 InstrumentID: ICP4500

MSD	Sample ID: 0410166-08CMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 10/19/04 18:14			
Client ID:	Run ID: ICP4500_041019A		SeqNo: 557461		Prep Date: 10/18/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04571	0.010	0.05	0.002056	87.3	79-126	0.04436	3	15	
Barium	0.04299	0.0050	0.05	0	86	79.8-119	0.04353	1.25	15	
Cadmium	0.04816	0.0020	0.05	0	96.3	79.1-119	0.049	1.73	15	
Calcium	4.709	0.50	5	0	94.2	80-121	4.565	3.11	15	
Chromium	0.04413	0.0050	0.05	0.000514	87.2	79.3-121	0.04473	1.35	15	
Lead	0.04202	0.0050	0.05	0	84	80-118	0.04349	3.44	15	
Manganese	0.04412	0.0050	0.05	0	88.2	82-119	0.04549	3.06	15	
Potassium	4.702	0.20	5	0	94	80-120	4.514	4.08	15	
Silver	0.04183	0.0050	0.05	0	83.7	80-117	0.04055	3.11	15	
Sodium	4.925	0.20	5	0.05642	97.4	80.6-119	4.629	6.2	15	

DUP	Sample ID: 0410166-08CDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 10/18/04 22:59			
Client ID:	Run ID: ICP4500_041018A		SeqNo: 556785		Prep Date: 10/18/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010	0	0	0	0-0	0.002056	0	25	
Arsenic	ND	0.0050	0	0	0	0-0	0.0009915	0	25	
Barium	ND	0.0050	0	0	0	0-0	0.0002264	0	25	
Beryllium	ND	0.0020	0	0	0	0-0	-0.00002272	0	25	
Boron	ND	0.020	0	0	0	0-0	-0.007361	0	25	
Cadmium	ND	0.0020	0	0	0	0-0	-0.00003823	0	25	
Calcium	ND	0.50	0	0	0	0-0	0.02736	0	25	
Chromium	ND	0.0050	0	0	0	0-0	0.000514	0	25	
Cobalt	ND	0.0050	0	0	0	0-0	-0.00002679	0	25	
Copper	ND	0.0050	0	0	0	0-0	0.0001411	0	25	
Iron	ND	0.20	0	0	0	0-0	0.0001478	0	25	
Lead	ND	0.0050	0	0	0	0-0	0.000007664	0	25	
Magnesium	ND	0.20	0	0	0	0-0	0.01873	0	25	
Manganese	ND	0.0050	0	0	0	0-0	0.0004209	0	25	
Molybdenum	ND	0.0050	0	0	0	0-0	0.00002916	0	25	
Nickel	ND	0.0050	0	0	0	0-0	-0.0000699	0	25	
Potassium	ND	0.20	0	0	0	0-0	-0.0651	0	25	
Selenium	ND	0.0050	0	0	0	0-0	-0.000123	0	25	
Silver	ND	0.0050	0	0	0	0-0	-0.0000227	0	25	
Sodium	ND	0.20	0	0	0	0-0	0.05642	0	25	
Vanadium	ND	0.0050	0	0	0	0-0	0.0003537	0	25	
Zinc	ND	0.0050	0	0	0	0-0	0.0008419	0	25	

The following samples were analyzed in this batch:

0410185-01C	0410185-02C	0410185-03C
0410185-04C	0410185-05C	

ND - Not Detected at the Reporting Limit

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CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10869 InstrumentID: Mercury

MBLK Sample ID: GBLKW2-102604 Test Code: SW7470 Units: mg/L Analysis Date: 10/26/04 18:12

Client ID: Run ID: MERCURY_041026C SeqNo: 561367 Prep Date: 10/26/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: GLCSW2-102604 Test Code: SW7470 Units: mg/L Analysis Date: 10/26/04 18:13

Client ID: Run ID: MERCURY_041026C SeqNo: 561368 Prep Date: 10/26/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00497	0.00020	0.005	0	99.4	83-115	0			

LCSD Sample ID: GLCSDW2-102604 Test Code: SW7470 Units: mg/L Analysis Date: 10/26/04 18:15

Client ID: Run ID: MERCURY_041026C SeqNo: 561369 Prep Date: 10/26/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00504	0.00020	0.005	0	101	83-115	0.00497	1.4	20	

MS Sample ID: 0410185-01CMS Test Code: SW7470 Units: mg/L Analysis Date: 10/26/04 18:29

Client ID: KWB-1A Run ID: MERCURY_041026C SeqNo: 561372 Prep Date: 10/26/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00423	0.00020	0.005	-0.000007	84.7	83-115	0			

MSD Sample ID: 0410185-01CMDS Test Code: SW7470 Units: mg/L Analysis Date: 10/26/04 18:31

Client ID: KWB-1A Run ID: MERCURY_041026C SeqNo: 561373 Prep Date: 10/26/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0043	0.00020	0.005	-0.000007	86.1	83-115	0.00423	1.64	20	

DUP Sample ID: 0410185-01CDUP Test Code: SW7470 Units: mg/L Analysis Date: 10/26/04 18:25

Client ID: KWB-1A Run ID: MERCURY_041026C SeqNo: 561371 Prep Date: 10/26/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000007	0	20	

The following samples were analyzed in this batch:

0410185-01C	0410185-02C	0410185-03C
0410185-04C	0410185-05C	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analytic value is > 4 times amount spiked

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10759 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-041018	Test Code: SW8270		Units: µg/L		Analysis Date: 10/20/04 17:35		
Client ID:	Run ID: SV-3_041020A	SeqNo:	558507	Prep Date: 10/18/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	ND	10						
2,4,5-Trichlorophenol	ND	10						
2,4,6-Trichlorophenol	ND	10						
2-Methylnaphthalene	ND	10						
2-Methylphenol	ND	10						
2-Nitroaniline	ND	10						
2-Nitrophenol	ND	10						
3-Nitroaniline	ND	10						
4-Methylphenol	ND	10						
4-Nitroaniline	ND	10						
4-Nitrophenol	ND	10						
Acenaphthene	ND	10						
Acenaphthylene	ND	10						
Aniline	ND	10						
Anthracene	ND	10						
Benz(a)anthracene	ND	10						
Benzidine	ND	10						
Hexachloroethane	ND	10						
Indeno(1,2,3-cd)pyrene	ND	10						
Isophorone	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitrosodiphenylamine	ND	10						
Naphthalene	ND	10						
Nitrobenzene	ND	10						
Pentachlorophenol	ND	10						
Phenanthrene	ND	10						
Phenol	ND	10						
Pyrene	ND	10						
1,4-Dichlorobenzene-d4	40	0						
Acenaphthene-d10	40	0						
Chrysene-d12	40	0						
Naphthalene-d8	40	0						
Perylene-d12	40	0						
Phenanthrene-d10	40	0						
Surr: 2,4,6-Tribromophenol	86.9	10	100	0	86.9	39-153	0	
Surr: 2-Fluorobiphenyl	82.75	10	100	0	82.8	40-147	0	
Surr: 2-Fluorophenol	45.27	10	100	0	45.3	21-110	0	
Surr: 4-Terphenyl-d14	85.92	10	100	0	85.9	39-141	0	
Surr: Nitrobenzene-d5	84.8	10	100	0	84.8	37-140	0	
Surr: Phenol-d6	27.68	10	100	0	27.7	11-100	0	

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10759 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-041018	Test Code: SW8270		Units: µg/L		Analysis Date: 10/20/04 18:01		
Client ID:		Run ID:	SV-3_041020A	SeqNo:	558508	Prep Date:	10/18/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
1,2,4-Trichlorobenzene	41.07	10	50	0	82.1	50-115	0	
2,4,5-Trichlorophenol	91.95	10	100	0	92	68-128	0	
2,4,6-Trichlorophenol	82.66	10	100	0	82.7	66-125	0	
2-Methylnaphthalene	40.26	10	50	0	80.5	47-122	0	
2-Methylphenol	68.2	10	100	0	68.2	51-115	0	
2-Nitroaniline	44.53	10	50	0	89.1	64-128	0	
2-Nitrophenol	85.16	10	100	0	85.2	60-119	0	
3-Nitroaniline	40.27	10	50	0	80.5	61-118	0	
4-Methylphenol	92.13	10	150	0	61.4	44-115	0	
4-Nitroaniline	39.29	10	50	0	78.6	61-123	0	
4-Nitrophenol	45.88	10	100	0	45.9	17-100	0	
Acenaphthene	42.34	10	50	0	84.7	68-115	0	
Acenaphthylene	42.41	10	50	0	84.8	67-116	0	
Aniline	29.36	10	50	0	58.7	40-130	0	
Anthracene	44.64	10	50	0	89.3	70-129	0	
Benz(a)anthracene	44.57	10	50	0	89.1	55-131	0	
Benzidine	18.85	10	50	0	37.7	10-115	0	
Hexachloroethane	39.94	10	50	0	79.9	46-115	0	
Indeno(1,2,3-cd)pyrene	43.89	10	50	0	87.8	42-123	0	
Isophorone	43.45	10	50	0	86.9	63-117	0	
N-Nitrosodi-n-propylamine	41.53	10	50	0	83.1	67-115	0	
N-Nitrosodimethylamine	22.41	10	50	0	44.8	28-115	0	
N-Nitrosodiphenylamine	45.38	10	50	0	90.8	72-144	0	
Naphthalene	42.19	10	50	0	84.4	52-115	0	
Nitrobenzene	42.98	10	50	0	86	65-115	0	
Pentachlorophenol	91.04	10	100	0	91	65-123	0	
Phenanthrene	43.26	10	50	0	86.5	69-119	0	
Phenol	32.1	10	100	0	32.1	16-115	0	
Pyrene	42.89	10	50	0	85.8	51-130	0	
Surr: 2,4,6-Tribromophenol	90.84	10	100	0	90.8	39-153	0	
Surr: 2-Fluorobiphenyl	81.46	10	100	0	81.5	40-147	0	
Surr: 2-Fluorophenol	51.01	10	100	0	51	21-110	0	
Surr: 4-Terphenyl-d14	88.3	10	100	0	88.3	39-141	0	
Surr: Nitrobenzene-d5	83.99	10	100	0	84	37-140	0	
Surr: Phenol-d6	32.79	10	100	0	32.8	11-100	0	

ND - Not Detected at the Reporting Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10759 InstrumentID: SV-3

MS	Sample ID: 0410139-18DMS	Test Code: SW8270		Units: µg/L		Analysis Date: 10/21/04 15:20			
Client ID:		Run ID:	SV-3_041020A	SeqNo:	558630	Prep Date:	10/18/2004	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
1,2,4-Trichlorobenzene	45.05	10	50	0	90.1	50-115		0	
2,4,5-Trichlorophenol	98.04	10	100	0	98	68-128		0	
2,4,6-Trichlorophenol	100.6	10	100	0	101	66-125		0	
2-Methylnaphthalene	43.41	10	50	0	86.8	47-122		0	
2-Methylphenol	73.36	10	100	0	73.4	51-115		0	
2-Nitroaniline	47.56	10	50	0	95.1	64-128		0	
2-Nitrophenol	97.99	10	100	0	98	60-119		0	
3-Nitroaniline	37.98	10	50	0	76	61-118		0	
4-Methylphenol	97.31	10	150	0	64.9	44-115		0	
4-Nitroaniline	48.71	10	50	0	97.4	61-123		0	
4-Nitrophenol	51.02	10	100	0	51	17-100		0	
Acenaphthene	47.55	10	50	0	95.1	68-115		0	
Acenaphthylene	46.72	10	50	0	93.4	67-116		0	
Aniline	25.86	10	50	0	51.7	40-130		0	
Anthracene	50.27	10	50	0	101	70-129		0	
Benz(a)anthracene	51.08	10	50	0	102	55-131		0	
Benzidine	3.405	10	50	0	6.81	10-115		0	JS
Hexachloroethane	40.1	10	50	0	80.2	46-115		0	
Indeno(1,2,3-cd)pyrene	39.83	10	50	0	79.7	42-123		0	
Isophorone	47.17	10	50	0	94.3	63-117		0	
N-Nitrosodi-n-propylamine	45.02	10	50	0	90	67-115		0	
N-Nitrosodimethylamine	26.62	10	50	0	53.2	28-115		0	
N-Nitrosodiphenylamine	51.96	10	50	0	104	72-144		0	
Naphthalene	45.63	10	50	0	91.3	52-115		0	
Nitrobenzene	46.77	10	50	0	93.5	65-115		0	
Pentachlorophenol	107.5	10	100	0	107	65-123		0	
Phenanthrene	49.01	10	50	0	98	69-119		0	
Phenol	34.2	10	100	0	34.2	16-115		0	
Pyrene	47.94	10	50	0	95.9	51-130		0	
Surr: 2,4,6-Tribromophenol	105	10	100	0	105	39-153		0	
Surr: 2-Fluorobiphenyl	92.34	10	100	0	92.3	40-147		0	
Surr: 2-Fluorophenol	55.78	10	100	0	55.8	21-110		0	
Surr: 4-Terphenyl-d14	97.26	10	100	0	97.3	39-141		0	
Surr: Nitrobenzene-d5	90.67	10	100	0	90.7	37-140		0	
Surr: Phenol-d6	35.62	10	100	0	35.6	11-100		0	

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O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: 10759 InstrumentID: SV-3

MSD	Sample ID: 0410139-18DMSD	Test Code: SW8270		Units: µg/L		Analysis Date: 10/21/04 15:46				
Client ID:		Run ID:	SV-3_041020A	SeqNo:	558631	Prep Date:	10/18/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	44.98	10	50	0	90	50-115	45.05	0.157	30	
2,4,5-Trichlorophenol	100.9	10	100	0	101	68-128	98.04	2.84	30	
2,4,6-Trichlorophenol	93.11	10	100	0	93.1	66-125	100.6	7.77	30	
2-Methylnaphthalene	43.18	10	50	0	86.4	47-122	43.41	0.527	30	
2-Methylphenol	72.24	10	100	0	72.2	51-115	73.36	1.54	30	
2-Nitroaniline	46.79	10	50	0	93.6	64-128	47.56	1.63	30	
2-Nitrophenol	96.66	10	100	0	96.7	60-119	97.99	1.37	30	
3-Nitroaniline	36.36	10	50	0	72.7	61-118	37.98	4.35	30	
4-Methylphenol	97.05	10	150	0	64.7	44-115	97.31	0.27	30	
4-Nitroaniline	46.82	10	50	0	93.6	61-123	48.71	3.94	30	
4-Nitrophenol	51.25	10	100	0	51.3	17-100	51.02	0.451	30	
Acenaphthene	46.86	10	50	0	93.7	68-115	47.55	1.45	30	
Acenaphthylene	46.14	10	50	0	92.3	67-116	46.72	1.24	30	
Aniline	25.15	10	50	0	50.3	40-130	25.86	2.78	30	
Anthracene	51.05	10	50	0	102	70-129	50.27	1.54	30	
Benz(a)anthracene	47.92	10	50	0	95.8	55-131	51.08	6.39	30	
Benzidine	3.484	10	50	0	6.97	10-115	3.405	0	30	JS
Hexachloroethane	39.71	10	50	0	79.4	46-115	40.1	0.972	30	
Indeno(1,2,3-cd)pyrene	42.58	10	50	0	85.2	42-123	39.83	6.68	30	
Isophorone	47.31	10	50	0	94.6	63-117	47.17	0.297	30	
N-Nitrosodi-n-propylamine	44.1	10	50	0	88.2	67-115	45.02	2.06	30	
N-Nitrosodimethylamine	26.57	10	50	0	53.1	28-115	26.62	0.206	30	
N-Nitrosodiphenylamine	52.65	10	50	0	105	72-144	51.96	1.32	30	
Naphthalene	45.57	10	50	0	91.1	52-115	45.63	0.128	30	
Nitrobenzene	47.17	10	50	0	94.3	65-115	46.77	0.838	30	
Pentachlorophenol	104.9	10	100	0	105	65-123	107.5	2.38	30	
Phenanthrene	49.48	10	50	0	99	69-119	49.01	0.962	30	
Phenol	33.73	10	100	0	33.7	16-115	34.2	1.38	30	
Pyrene	47.36	10	50	0	94.7	51-130	47.94	1.22	30	
Surr: 2,4,6-Tribromophenol	106.5	10	100	0	106	39-153	105	1.36	30	
Surr: 2-Fluorobiphenyl	93.56	10	100	0	93.6	40-147	92.34	1.31	30	
Surr: 2-Fluorophenol	53.78	10	100	0	53.8	21-110	55.78	3.63	30	
Surr: 4-Terphenyl-d14	96.25	10	100	0	96.2	39-141	97.26	1.04	30	
Surr: Nitrobenzene-d5	90.97	10	100	0	91	37-140	90.67	0.331	30	
Surr: Phenol-d6	34.98	10	100	0	35	11-100	35.62	1.81	30	

The following samples were analyzed in this batch:

0410185-01E 0410185-02E

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: **10814** InstrumentID: **SV-3**

MBLK	Sample ID: SBLKW1-041021	Test Code: SW8270		Units: µg/L		Analysis Date: 10/25/04 14:38				
Client ID:		Run ID:	SV-3_041025B	SeqNo:	560362	Prep Date:	10/21/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
3-Nitroaniline	ND	10								
4-Methylphenol	ND	10								
4-Nitroaniline	ND	10								
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	94.89	10	100	0	94.9	39-153	0			
Surr: 2-Fluorobiphenyl	90.66	10	100	0	90.7	40-147	0			
Surr: 2-Fluorophenol	49.76	10	100	0	49.8	21-110	0			
Surr: 4-Terphenyl-d14	97.26	10	100	0	97.3	39-141	0			
Surr: Nitrobenzene-d5	89.5	10	100	0	89.5	37-140	0			
Surr: Phenol-d6	29.82	10	100	0	29.8	11-100	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: **10814** InstrumentID: **SV-3**

LCS	Sample ID: SLCSW1-041021	Test Code: SW8270		Units: µg/L		Analysis Date: 10/25/04 9:37				
Client ID:		Run ID: SV-3_041025B	SeqNo: 560360			Prep Date: 10/21/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	45.99	10	50	0	92	50-115	0	0		
2,4,5-Trichlorophenol	95.95	10	100	0	95.9	68-128	0	0		
2,4,6-Trichlorophenol	93.17	10	100	0	93.2	66-125	0	0		
2-Methylnaphthalene	44.94	10	50	0	89.9	47-122	0	0		
2-Methylphenol	74.26	10	100	0	74.3	51-115	0	0		
2-Nitroaniline	46.18	10	50	0	92.4	64-128	0	0		
2-Nitrophenol	96.71	10	100	0	96.7	60-119	0	0		
3-Nitroaniline	43.83	10	50	0	87.7	61-118	0	0		
4-Methylphenol	96.67	10	150	0	64.4	44-115	0	0		
4-Nitroaniline	46.88	10	50	0	93.8	61-123	0	0		
4-Nitrophenol	43.56	10	100	0	43.6	17-100	0	0		
Acenaphthene	46.35	10	50	0	92.7	68-115	0	0		
Acenaphthylene	46.49	10	50	0	93	67-116	0	0		
Aniline	28.99	10	50	0	58	40-130	0	0		
Anthracene	49.03	10	50	0	98.1	70-129	0	0		
Benz(a)anthracene	50.32	10	50	0	101	55-131	0	0		
Benzidine	12.92	10	50	0	25.8	10-115	0	0		
Hexachloroethane	43.07	10	50	0	86.1	46-115	0	0		
Indeno(1,2,3-cd)pyrene	49.76	10	50	0	99.5	42-123	0	0		
Isophorone	47.86	10	50	0	95.7	63-117	0	0		
N-Nitrosodi-n-propylamine	45.02	10	50	0	90	67-115	0	0		
N-Nitrosodimethylamine	16.61	10	50	0	33.2	28-115	0	0		
N-Nitrosodiphenylamine	49.72	10	50	0	99.4	72-144	0	0		
Naphthalene	46.48	10	50	0	93	52-115	0	0		
Nitrobenzene	44.32	10	50	0	88.6	65-115	0	0		
Pentachlorophenol	89.71	10	100	0	89.7	65-123	0	0		
Phenanthrene	47.98	10	50	0	96	69-119	0	0		
Phenol	37.46	10	100	0	37.5	16-115	0	0		
Pyrene	47.38	10	50	0	94.8	51-130	0	0		
Surr: 2,4,6-Tribromophenol	99.27	10	100	0	99.3	39-153	0	0		
Surr: 2-Fluorobiphenyl	89.75	10	100	0	89.8	40-147	0	0		
Surr: 2-Fluorophenol	55.86	10	100	0	55.9	21-110	0	0		
Surr: 4-Terphenyl-d14	97.84	10	100	0	97.8	39-141	0	0		
Surr: Nitrobenzene-d5	90.57	10	100	0	90.6	37-140	0	0		
Surr: Phenol-d6	35.4	10	100	0	35.4	11-100	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: **10814** InstrumentID: **SV-3**

LCSD	Sample ID: SLCSDW1-041021			Test Code: SW8270	Units: µg/L		Analysis Date: 10/25/04 10:02			
Client ID:		Run ID:	SV-3_041025B	SeqNo:	560361	Prep Date: 10/21/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	47.06	10	50	0	94.1	50-115	45.99	2.3	30	
2,4,5-Trichlorophenol	93.72	10	100	0	93.7	68-128	95.95	2.35	30	
2,4,6-Trichlorophenol	92.34	10	100	0	92.3	66-125	93.17	0.897	30	
2-Methylnaphthalene	44.31	10	50	0	88.6	47-122	44.94	1.41	30	
2-Methylphenol	71.31	10	100	0	71.3	51-115	74.26	4.06	30	
2-Nitroaniline	45.16	10	50	0	90.3	64-128	46.18	2.23	30	
2-Nitrophenol	97.55	10	100	0	97.5	60-119	96.71	0.863	30	
3-Nitroaniline	41.88	10	50	0	83.8	61-118	43.83	4.53	30	
4-Methylphenol	93.79	10	150	0	62.5	44-115	96.67	3.03	30	
4-Nitroaniline	47.83	10	50	0	95.7	61-123	46.88	2	30	
4-Nitrophenol	43.2	10	100	0	43.2	17-100	43.56	0.824	30	
Acenaphthene	46.12	10	50	0	92.2	68-115	46.35	0.496	30	
Acenaphthylene	46.02	10	50	0	92	67-116	46.49	1.01	30	
Aniline	29.3	10	50	0	58.6	40-130	28.99	1.05	30	
Anthracene	49.44	10	50	0	98.9	70-129	49.03	0.846	30	
Benz(a)anthracene	49.75	10	50	0	99.5	55-131	50.32	1.15	30	
Benzidine	10.23	10	50	0	20.5	10-115	12.92	23.3	30	
Hexachloroethane	41.83	10	50	0	83.7	46-115	43.07	2.92	30	
Indeno(1,2,3-cd)pyrene	52.1	10	50	0	104	42-123	49.76	4.59	30	
Isophorone	47.57	10	50	0	95.1	63-117	47.86	0.593	30	
N-Nitrosodi-n-propylamine	43.85	10	50	0	87.7	67-115	45.02	2.63	30	
N-Nitrosodimethylamine	17.58	10	50	0	35.2	28-115	16.61	5.71	30	
N-Nitrosodiphenylamine	50.5	10	50	0	101	72-144	49.72	1.56	30	
Naphthalene	46.31	10	50	0	92.6	52-115	46.48	0.382	30	
Nitrobenzene	44.73	10	50	0	89.5	65-115	44.32	0.927	30	
Pentachlorophenol	87.66	10	100	0	87.7	65-123	89.71	2.3	30	
Phenanthrene	48.86	10	50	0	97.7	69-119	47.98	1.81	30	
Phenol	36.65	10	100	0	36.6	16-115	37.46	2.2	30	
Pyrene	47.16	10	50	0	94.3	51-130	47.38	0.448	30	
Surr: 2,4,6-Tribromophenol	102	10	100	0	102	39-153	99.27	2.74	30	
Surr: 2-Fluorobiphenyl	88.7	10	100	0	88.7	40-147	89.75	1.18	30	
Surr: 2-Fluorophenol	53.66	10	100	0	53.7	21-110	55.86	4.01	30	
Surr: 4-Terphenyl-d14	97.64	10	100	0	97.6	39-141	97.84	0.204	30	
Surr: Nitrobenzene-d5	89.33	10	100	0	89.3	37-140	90.57	1.38	30	
Surr: Phenol-d6	34.66	10	100	0	34.7	11-100	35.4	2.12	30	

The following samples were analyzed in this batch:

0410185-03E 0410185-04E 0410185-05E

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23912 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-1018	Test Code: SW8260		Units: µg/L		Analysis Date: 10/18/04 14:43		
Client ID:	Run ID: VOA1_041018A	SeqNo:	556854	Prep Date:	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	46.46	5.0	50	0	92.9	71-126	0	
Surr: 4-Bromofluorobenzene	46.78	5.0	50	0	93.6	74-125	0	
Surr: Dibromofluoromethane	46.56	5.0	50	0	93.1	73-126	0	
Surr: Toluene-d8	45.21	5.0	50	0	90.4	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23912 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1018	Test Code: SW8260		Units: µg/L		Analysis Date: 10/18/04 13:48				
Client ID:		Run ID:	VOA1_041018A	SeqNo:	556853	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.33	5.0	50	0	96.7	75.2-120		0		
1,1,2,2-Tetrachloroethane	47.17	5.0	50	0	94.3	72.4-121		0		
1,1,2-Trichloroethane	45.78	5.0	50	0	91.6	80-120		0		
1,1-Dichloroethane	42.39	5.0	50	0	84.8	76.9-120		0		
1,1-Dichloroethene	45.04	5.0	50	0	90.1	72.6-123		0		
1,2-Dichloroethane	50.94	5.0	50	0	102	80-120		0		
2-Butanone	87.89	10	100	0	87.9	69-131		0		
2-Chloroethyl vinyl ether	103.5	10	100	0	103	60-135		0		
2-Hexanone	104.6	10	100	0	105	55.6-126		0		
4-Methyl-2-pentanone	103.6	10	100	0	104	67.4-121		0		
Acetone	78	10	100	0	78	64.4-140		0		
Benzene	45.35	5.0	50	0	90.7	80-120		0		
Bromodichloromethane	49.91	5.0	50	0	99.8	80-120		0		
Bromoform	51.67	5.0	50	0	103	77.9-121		0		
Bromomethane	41.85	5.0	50	0	83.7	63.3-137		0		
Carbon disulfide	90.65	10	100	0	90.6	74.1-123		0		
Carbon tetrachloride	52.24	5.0	50	0	104	74.7-120		0		
Chlorobenzene	45.51	5.0	50	0	91	80-120		0		
Chloroethane	43.56	5.0	50	0	87.1	74.7-126		0		
Chloroform	45.26	5.0	50	0	90.5	80-120		0		
Chloromethane	41.14	5.0	50	0	82.3	64.5-132		0		
cis-1,3-Dichloropropene	50.12	5.0	50	0	100	80-120		0		
Dibromochloromethane	52.16	5.0	50	0	104	80-120		0		
Ethylbenzene	46.81	5.0	50	0	93.6	80-120		0		
m,p-Xylene	90.74	10	100	0	90.7	80-120		0		
Methylene chloride	44.12	10	50	0	88.2	76.2-120		0		
Styrene	45.38	5.0	50	0	90.8	80-120		0		
Tetrachloroethene	47.63	5.0	50	0	95.3	68.5-130		0		
Toluene	45.09	5.0	50	0	90.2	80-120		0		
trans-1,3-Dichloropropene	54.88	5.0	50	0	110	80-120		0		
Trichloroethene	47.25	5.0	50	0	94.5	78.9-120		0		
Vinyl acetate	105.4	10	100	0	105	62.4-133		0		
Vinyl chloride	44.52	2.0	50	0	89	72.7-128		0		
Xylenes, Total	137	15	150	0	91.3	80-120		0		
Surr: 1,2-Dichloroethane-d4	45.79	5.0	50	0	91.6	71-126		0		
Surr: 4-Bromofluorobenzene	46.92	5.0	50	0	93.8	74-125		0		
Surr: Dibromofluoromethane	45.17	5.0	50	0	90.3	73-126		0		
Surr: Toluene-d8	46.02	5.0	50	0	92	75-125		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23912 InstrumentID: VOA1

MS	Sample ID: 0410173-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 10/18/04 15:39			
Client ID:		Run ID:	VOA1_041018A	SeqNo:	556856	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	48.85	5.0	50	0	97.7	75.2-120	0		
1,1,2,2-Tetrachloroethane	50.79	5.0	50	0	102	72.4-121	0		
1,1,2-Trichloroethane	46.65	5.0	50	0	93.3	80-120	0		
1,1-Dichloroethane	44.3	5.0	50	0	88.6	76.9-120	0		
1,1-Dichloroethene	45.49	5.0	50	0	91	72.6-123	0		
1,2-Dichloroethane	51.12	5.0	50	0	102	80-120	0		
2-Butanone	87.32	10	100	0	87.3	69-131	0		
2-Chloroethyl vinyl ether	19.28	10	100	0	19.3	60-135	0		S
2-Hexanone	108	10	100	0	108	55.6-126	0		
4-Methyl-2-pentanone	108.7	10	100	0	109	67.4-121	0		
Acetone	78.03	10	100	0	78	64.4-140	0		
Benzene	44.85	5.0	50	0	89.7	80-120	0		
Bromodichloromethane	51.49	5.0	50	0	103	80-120	0		
Bromoform	52.58	5.0	50	0	105	77.9-121	0		
Bromomethane	41.88	5.0	50	0	83.8	63.3-137	0		
Carbon disulfide	93.12	10	100	0	93.1	74.1-123	0		
Carbon tetrachloride	54.09	5.0	50	0	108	74.7-120	0		
Chlorobenzene	46.69	5.0	50	0	93.4	80-120	0		
Chloroethane	44.52	5.0	50	0	89	74.7-126	0		
Chloroform	45.78	5.0	50	0	91.6	80-120	0		
Chloromethane	40.85	5.0	50	0	81.7	64.5-132	0		
cis-1,3-Dichloropropene	48.94	5.0	50	0	97.9	80-120	0		
Dibromochloromethane	54.37	5.0	50	0	109	80-120	0		
Ethylbenzene	49.2	5.0	50	0	98.4	80-120	0		
m,p-Xylene	94.46	10	100	0	94.5	80-120	0		
Methylene chloride	44.86	10	50	0	89.7	76.2-120	0		
Styrene	47.57	5.0	50	0	95.1	80-120	0		
Tetrachloroethene	50.07	5.0	50	0	100	68.5-130	0		
Toluene	46.42	5.0	50	0	92.8	80-120	0		
trans-1,3-Dichloropropene	54.57	5.0	50	0	109	80-120	0		
Trichloroethene	48.1	5.0	50	0	96.2	78.9-120	0		
Vinyl acetate	109.8	10	100	0	110	62.4-133	0		
Vinyl chloride	44.2	2.0	50	0	88.4	72.7-128	0		
Xylenes, Total	141.7	15	150	0	94.5	80-120	0		
Surr: 1,2-Dichloroethane-d4	46.4	5.0	50	0	92.8	71-126	0		
Surr: 4-Bromofluorobenzene	46.41	5.0	50	0	92.8	74-125	0		
Surr: Dibromofluoromethane	45.63	5.0	50	0	91.3	73-126	0		
Surr: Toluene-d8	45.13	5.0	50	0	90.3	75-125	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23912 InstrumentID: VOA1

MSD	Sample ID: 0410173-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 10/18/04 16:06				
Client ID:		Run ID:	VOA1_041018A	SeqNo:	556857	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.03	5.0	50	0	104	75.2-120	48.85	6.3	20	
1,1,2,2-Tetrachloroethane	51.12	5.0	50	0	102	72.4-121	50.79	0.641	20	
1,1,2-Trichloroethane	48.08	5.0	50	0	96.2	80-120	46.65	3.03	20	
1,1-Dichloroethane	45.46	5.0	50	0	90.9	76.9-120	44.3	2.59	20	
1,1-Dichloroethene	47.7	5.0	50	0	95.4	72.6-123	45.49	4.74	20	
1,2-Dichloroethane	51.86	5.0	50	0	104	80-120	51.12	1.44	20	
2-Butanone	94.74	10	100	0	94.7	69-131	87.32	8.15	20	
2-Chloroethyl vinyl ether	ND	10	100	0	0	60-135	19.28	0	20	S
2-Hexanone	114.2	10	100	0	114	55.6-126	108	5.67	20	
4-Methyl-2-pentanone	112.8	10	100	0	113	67.4-121	108.7	3.77	20	
Acetone	76.89	10	100	0	76.9	64.4-140	78.03	1.48	20	
Benzene	47.38	5.0	50	0	94.8	80-120	44.85	5.49	20	
Bromodichloromethane	55.05	5.0	50	0	110	80-120	51.49	6.68	20	
Bromoform	53.98	5.0	50	0	108	77.9-121	52.58	2.62	20	
Bromomethane	46.09	5.0	50	0	92.2	63.3-137	41.88	9.57	20	
Carbon disulfide	97.99	10	100	0	98	74.1-123	93.12	5.09	20	
Carbon tetrachloride	56.95	5.0	50	0	114	74.7-120	54.09	5.15	20	
Chlorobenzene	49.01	5.0	50	0	98	80-120	46.69	4.83	20	
Chloroethane	47.05	5.0	50	0	94.1	74.7-126	44.52	5.52	20	
Chloroform	48.14	5.0	50	0	96.3	80-120	45.78	5.03	20	
Chloromethane	46.04	5.0	50	0	92.1	64.5-132	40.85	12	20	
cis-1,3-Dichloropropene	53.28	5.0	50	0	107	80-120	48.94	8.5	20	
Dibromochloromethane	55.11	5.0	50	0	110	80-120	54.37	1.34	20	
Ethylbenzene	49.65	5.0	50	0	99.3	80-120	49.2	0.907	20	
m,p-Xylene	98.23	10	100	0	98.2	80-120	94.46	3.92	20	
Methylene chloride	47.3	10	50	0	94.6	76.2-120	44.86	5.28	20	
Styrene	49.83	5.0	50	0	99.7	80-120	47.57	4.64	20	
Tetrachloroethene	51.56	5.0	50	0	103	68.5-130	50.07	2.93	20	
Toluene	47.34	5.0	50	0	94.7	80-120	46.42	1.96	20	
trans-1,3-Dichloropropene	57.74	5.0	50	0	115	80-120	54.57	5.64	20	
Trichloroethene	50.79	5.0	50	0	102	78.9-120	48.1	5.45	20	
Vinyl acetate	111.7	10	100	0	112	62.4-133	109.8	1.77	20	
Vinyl chloride	48.71	2.0	50	0	97.4	72.7-128	44.2	9.72	20	
Xylenes, Total	149.3	15	150	0	99.6	80-120	141.7	5.24	20	
Surr: 1,2-Dichloroethane-d4	45.1	5.0	50	0	90.2	71-126	46.4	2.85	20	
Surr: 4-Bromofluorobenzene	46.07	5.0	50	0	92.1	74-125	46.41	0.74	20	
Surr: Dibromofluoromethane	45.83	5.0	50	0	91.7	73-126	45.63	0.456	20	
Surr: Toluene-d8	46.31	5.0	50	0	92.6	75-125	45.13	2.58	20	

The following samples were analyzed in this batch:

0410185-01A	0410185-02A	0410185-03A
0410185-04A	0410185-05A	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23942 InstrumentID: VOA2

MBLK	Sample ID: VBLKW-1019	Test Code: SW8260		Units: µg/L		Analysis Date: 10/19/04 11:55		
Client ID:	Run ID: VOA2_041019A	SeqNo:	557558	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	44.85	5.0	50	0	89.7	71-126	0	
Surr: 4-Bromofluorobenzene	43.09	5.0	50	0	86.2	74-125	0	
Surr: Dibromofluoromethane	45.42	5.0	50	0	90.8	73-126	0	
Surr: Toluene-d8	45.01	5.0	50	0	90	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23942 InstrumentID: VOA2

LCS	Sample ID: VLCSW-1019			Test Code: SW8260	Units: µg/L		Analysis Date: 10/19/04 11:04			
Client ID:		Run ID:	VOA2_041019A	SeqNo:	557557	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.59	5.0	50	0	97.2	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	47.08	5.0	50	0	94.2	72.4-121	0	0		
1,1,2-Trichloroethane	47.71	5.0	50	0	95.4	80-120	0	0		
1,1-Dichloroethane	47.54	5.0	50	0	95.1	76.9-120	0	0		
1,1-Dichloroethene	50.03	5.0	50	0	100	72.6-123	0	0		
1,2-Dichloroethane	47.82	5.0	50	0	95.6	80-120	0	0		
2-Butanone	102.7	10	100	0	103	69-131	0	0		
2-Chloroethyl vinyl ether	100.6	10	100	0	101	60-135	0	0		
2-Hexanone	104.9	10	100	0	105	55.6-126	0	0		
4-Methyl-2-pentanone	102.3	10	100	0	102	67.4-121	0	0		
Acetone	101	10	100	0	101	64.4-140	0	0		
Benzene	48.57	5.0	50	0	97.1	80-120	0	0		
Bromodichloromethane	48.38	5.0	50	0	96.8	80-120	0	0		
Bromoform	48.82	5.0	50	0	97.6	77.9-121	0	0		
Bromomethane	48.86	5.0	50	0	97.7	63.3-137	0	0		
Carbon disulfide	96.66	10	100	0	96.7	74.1-123	0	0		
Carbon tetrachloride	49.37	5.0	50	0	98.7	74.7-120	0	0		
Chlorobenzene	47.61	5.0	50	0	95.2	80-120	0	0		
Chloroethane	48.02	5.0	50	0	96	74.7-126	0	0		
Chloroform	47.25	5.0	50	0	94.5	80-120	0	0		
Chloromethane	38.31	5.0	50	0	76.6	64.5-132	0	0		
cis-1,3-Dichloropropene	49.85	5.0	50	0	99.7	80-120	0	0		
Dibromochloromethane	48.09	5.0	50	0	96.2	80-120	0	0		
Ethylbenzene	50	5.0	50	0	100	80-120	0	0		
m,p-Xylene	99.38	10	100	0	99.4	80-120	0	0		
Methylene chloride	46.08	10	50	0	92.2	76.2-120	0	0		
Styrene	50.08	5.0	50	0	100	80-120	0	0		
Tetrachloroethene	48.93	5.0	50	0	97.9	68.5-130	0	0		
Toluene	49.08	5.0	50	0	98.2	80-120	0	0		
trans-1,3-Dichloropropene	49.2	5.0	50	0	98.4	80-120	0	0		
Trichloroethene	48.39	5.0	50	0	96.8	78.9-120	0	0		
Vinyl acetate	109.1	10	100	0	109	62.4-133	0	0		
Vinyl chloride	48.08	2.0	50	0	96.2	72.7-128	0	0		
Xylenes, Total	149.2	15	150	0	99.5	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	40.83	5.0	50	0	81.7	71-126	0	0		
Surr: 4-Bromofluorobenzene	45.39	5.0	50	0	90.8	74-125	0	0		
Surr: Dibromofluoromethane	41.73	5.0	50	0	83.5	73-126	0	0		
Surr: Toluene-d8	44.98	5.0	50	0	90	75-125	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23942 InstrumentID: VOA2

MS	Sample ID: 0410190-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 10/19/04 14:28			
Client ID:		Run ID:	VOA2_041019A	SeqNo:	557564	Prep Date:	DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	1208	120	1250	0	96.6	75.2-120	0	0	
1,1,2,2-Tetrachloroethane	1267	120	1250	0	101	72.4-121	0	0	
1,1,2-Trichloroethane	1212	120	1250	0	97	80-120	0	0	
1,1-Dichloroethane	1202	120	1250	0	96.1	76.9-120	0	0	
1,1-Dichloroethene	1242	120	1250	0	99.4	72.6-123	0	0	
1,2-Dichloroethane	1255	120	1250	0	100	80-120	0	0	
2-Butanone	2846	250	2500	0	114	69-131	0	0	
2-Chloroethyl vinyl ether	2602	250	2500	0	104	60-135	0	0	
2-Hexanone	2702	250	2500	0	108	55.6-126	0	0	
4-Methyl-2-pentanone	2662	250	2500	0	106	67.4-121	0	0	
Acetone	2894	250	2500	0	116	64.4-140	0	0	
Benzene	1301	120	1250	51.18	100	80-120	0	0	
Bromodichloromethane	1260	120	1250	0	101	80-120	0	0	
Bromoform	1253	120	1250	0	100	77.9-121	0	0	
Bromomethane	1147	120	1250	0	91.8	63.3-137	0	0	
Carbon disulfide	2433	250	2500	0	97.3	74.1-123	0	0	
Carbon tetrachloride	1316	120	1250	67.57	99.9	74.7-120	0	0	
Chlorobenzene	1494	120	1250	297	95.8	80-120	0	0	
Chloroethane	1215	120	1250	0	97.2	74.7-126	0	0	
Chloroform	1736	120	1250	587.6	91.9	80-120	0	0	
Chloromethane	1022	120	1250	0	81.8	64.5-132	0	0	
cis-1,3-Dichloropropene	1265	120	1250	0	101	80-120	0	0	
Dibromochloromethane	1230	120	1250	0	98.4	80-120	0	0	
Ethylbenzene	1256	120	1250	0	101	80-120	0	0	
m,p-Xylene	2508	250	2500	21.56	99.4	80-120	0	0	
Methylene chloride	1225	250	1250	81.35	91.5	76.2-120	0	0	
Styrene	1258	120	1250	0	101	80-120	0	0	
Tetrachloroethene	1228	120	1250	0	98.2	68.5-130	0	0	
Toluene	1250	120	1250	21.3	98.3	80-120	0	0	
trans-1,3-Dichloropropene	1279	120	1250	0	102	80-120	0	0	
Trichloroethene	1232	120	1250	0	98.5	78.9-120	0	0	
Vinyl acetate	2817	250	2500	0	113	62.4-133	0	0	
Vinyl chloride	1180	50	1250	0	94.4	72.7-128	0	0	
Xylenes, Total	3780	380	3750	21.56	100	80-120	0	0	
Surr: 1,2-Dichloroethane-d4	1027	120	1250	0	82.2	71-126	0	0	
Surr: 4-Bromofluorobenzene	1117	120	1250	0	89.4	74-125	0	0	
Surr: Dibromofluoromethane	1068	120	1250	0	85.4	73-126	0	0	
Surr: Toluene-d8	1105	120	1250	0	88.4	75-125	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

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U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23942 InstrumentID: VOA2

MSD	Sample ID: 0410190-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 10/19/04 14:53				
Client ID:		Run ID:	VOA2_041019A	SeqNo:	557565	Prep Date:	DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1164	120	1250	0	93.1	75.2-120	1208	3.73	20	
1,1,2,2-Tetrachloroethane	1229	120	1250	0	98.3	72.4-121	1267	3	20	
1,1,2-Trichloroethane	1244	120	1250	0	99.5	80-120	1212	2.59	20	
1,1-Dichloroethane	1190	120	1250	0	95.2	76.9-120	1202	0.978	20	
1,1-Dichloroethene	1211	120	1250	0	96.9	72.6-123	1242	2.52	20	
1,2-Dichloroethane	1252	120	1250	0	100	80-120	1255	0.269	20	
2-Butanone	2967	250	2500	0	119	69-131	2846	4.17	20	
2-Chloroethyl vinyl ether	2752	250	2500	0	110	60-135	2602	5.59	20	
2-Hexanone	2891	250	2500	0	116	55.6-126	2702	6.77	20	
4-Methyl-2-pentanone	2817	250	2500	0	113	67.4-121	2662	5.65	20	
Acetone	3038	250	2500	0	122	64.4-140	2894	4.87	20	
Benzene	1269	120	1250	51.18	97.5	80-120	1301	2.48	20	
Bromodichloromethane	1245	120	1250	0	99.6	80-120	1260	1.18	20	
Bromoform	1279	120	1250	0	102	77.9-121	1253	2.03	20	
Bromomethane	1210	120	1250	0	96.8	63.3-137	1147	5.32	20	
Carbon disulfide	2389	250	2500	0	95.5	74.1-123	2433	1.84	20	
Carbon tetrachloride	1269	120	1250	67.57	96.1	74.7-120	1316	3.62	20	
Chlorobenzene	1485	120	1250	297	95.1	80-120	1494	0.624	20	
Chloroethane	1182	120	1250	0	94.6	74.7-126	1215	2.72	20	
Chloroform	1740	120	1250	587.6	92.2	80-120	1736	0.205	20	
Chloromethane	1015	120	1250	0	81.2	64.5-132	1022	0.751	20	
cis-1,3-Dichloropropene	1266	120	1250	0	101	80-120	1265	0.12	20	
Dibromochloromethane	1247	120	1250	0	99.8	80-120	1230	1.4	20	
Ethylbenzene	1238	120	1250	0	99	80-120	1256	1.48	20	
m,p-Xylene	2504	250	2500	21.56	99.3	80-120	2508	0.126	20	
Methylene chloride	1245	250	1250	81.35	93.1	76.2-120	1225	1.67	20	
Styrene	1261	120	1250	0	101	80-120	1258	0.227	20	
Tetrachloroethylene	1198	120	1250	0	95.9	68.5-130	1228	2.44	20	
Toluene	1217	120	1250	21.3	95.7	80-120	1250	2.66	20	
trans-1,3-Dichloropropene	1282	120	1250	0	103	80-120	1279	0.278	20	
Trichloroethylene	1202	120	1250	0	96.2	78.9-120	1232	2.46	20	
Vinyl acetate	2688	250	2500	0	108	62.4-133	2817	4.69	20	
Vinyl chloride	1167	50	1250	0	93.3	72.7-128	1180	1.11	20	
Xylenes, Total	3766	380	3750	21.56	99.9	80-120	3780	0.371	20	
Surr: 1,2-Dichloroethane-d4	1051	120	1250	0	84.1	71-126	1027	2.28	20	
Surr: 4-Bromofluorobenzene	1111	120	1250	0	88.9	74-125	1117	0.525	20	
Surr: Dibromofluoromethane	1072	120	1250	0	85.8	73-126	1068	0.362	20	
Surr: Toluene-d8	1105	120	1250	0	88.4	75-125	1105	0.0369	20	

The following samples were analyzed in this batch:

0410185-04A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23904 InstrumentID: IC201

MBLK Sample ID: WBLKW1-101604 Test Code: E300 Units: mg/L Analysis Date: 10/16/04 13:20

Client ID: Run ID: IC201_041016A SeqNo: 556485 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.15	0.10	5	0	103	80-120	0			

LCS Sample ID: WLCSW1-101604 Test Code: E300 Units: mg/L Analysis Date: 10/16/04 13:48

Client ID: Run ID: IC201_041016A SeqNo: 556486 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.99	0.50	10	0	89.9	80-120	0			
Fluoride	1.92	0.10	2	0	96	80-120	0			
Sulfate	9.87	1.0	10	0	98.7	80-120	0			
Nitrate/Nitrite (as N)	3.9	0.10	0	0	0	80-120	0			
Surr: Dichloroacetic acid (surr)	5.28	0.10	5	0	106	80-120	0			

LCSD Sample ID: WLCSDW1-10160 Test Code: E300 Units: mg/L Analysis Date: 10/16/04 14:17

Client ID: Run ID: IC201_041016A SeqNo: 556487 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.94	0.50	10	0	89.4	80-120	8.99	0.558	20	
Fluoride	1.87	0.10	2	0	93.5	80-120	1.92	2.64	20	
Sulfate	9.71	1.0	10	0	97.1	80-120	9.87	1.63	20	
Nitrate/Nitrite (as N)	3.94	0.10	0	0	0	80-120	3.9	1.02	20	
Surr: Dichloroacetic acid (surr)	5.59	0.10	5	0	112	80-120	5.28	5.7	20	

MS Sample ID: 0410181-03CMS Test Code: E300 Units: mg/L Analysis Date: 10/16/04 22:50

Client ID: Run ID: IC201_041016A SeqNo: 556504 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	233.6	0.50	10	221.5	121	75-125	0			EO
Fluoride	3.19	0.10	2	1.13	103	75-125	0			
Sulfate	119	1.0	10	107.1	120	75-125	0			EO
Nitrate/Nitrite (as N)	6.92	0.10	4	2.83	102	75-125	0			
Surr: Dichloroacetic acid (surr)	5.25	0.10	5	0	105	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23904 InstrumentID: IC201

MSD		Sample ID: 0410181-03CMSD		Test Code: E300		Units: mg/L		Analysis Date: 10/16/04 23:19			
Client ID:		Run ID: IC201_041016A		SeqNo: 556505		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		232.6	0.50	10	221.5	111	75-125	233.6	0.425	20	EO
Fluoride		3.13	0.10	2	1.13	100	75-125	3.19	1.9	20	
Sulfate		119	1.0	10	107.1	119	75-125	119	0.0588	20	EO
Nitrate/Nitrite (as N)		6.93	0.10	4	2.83	102	75-125	6.92	0.144	20	
Surr: Dichloroacetic acid (surr)		5.17	0.10	5	0	103	80-120	5.25	1.54	20	

DUP		Sample ID: 0410181-03CDUP		Test Code: E300		Units: mg/L		Analysis Date: 10/16/04 17:08			
Client ID:		Run ID: IC201_041016A		SeqNo: 556493		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride		1.07	0.10	0	0	0	0-0	1.13	5.45	20	
Nitrate/Nitrite (as N)		2.83	0.10	0	0	0	0-0	2.83	0	20	
Surr: Dichloroacetic acid (surr)		5.58	0.10	5	0	112	80-120	5.52	1.08	20	

DUP		Sample ID: 0410181-03CDUP		Test Code: E300		Units: mg/L		Analysis Date: 10/17/04 0:16			
Client ID:		Run ID: IC201_041016A		SeqNo: 556507		Prep Date:		DF: 5			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		190	2.5	0	0	0	0-0	189.9	0.079	20	
Fluoride		0.85	0.50	0	0	0	0-0	0.9	5.71	20	
Sulfate		87.95	5.0	0	0	0	0-0	88	0.0568	20	
Nitrate/Nitrite (as N)		2.65	0.50	.0	0	0	0-0	2.65	0	20	
Surr: Dichloroacetic acid (surr)		28.15	0.50	25	0	113	80-120	28.05	0.356	20	

DUP		Sample ID: 0410185-03BDUP		Test Code: E300		Units: mg/L		Analysis Date: 10/17/04 14:59			
Client ID:		Run ID: IC201_041016A		SeqNo: 556518		Prep Date:		DF: 10			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		150.8	5.0	0	0	0	0-0	150.6	0.133	20	
Fluoride		0.6	1.0	0	0	0	0-0	0.5	0	20	J
Sulfate		6	10	0	0	0	0-0	6	0	20	J
Nitrate/Nitrite (as N)		ND	1.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)		54.7	1.0	50	0	109	80-120	56.5	3.24	20	

The following samples were analyzed in this batch:

0410185-01B	0410185-02B	0410185-03B
0410185-04B	0410185-05B	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23926 InstrumentID: IC201

MBLK Sample ID: WBLKW1-101804 Test Code: E300 Units: mg/L Analysis Date: 10/18/04 18:19

Client ID: Run ID: IC201_041018A SeqNo: 557120 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.66	0.10	5	0	113	80-120	0			

LCS Sample ID: WLCSW1-101804 Test Code: E300 Units: mg/L Analysis Date: 10/18/04 18:48

Client ID: Run ID: IC201_041018A SeqNo: 557121 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.16	0.50	10	0	91.6	80-120	0			
Fluoride	2.08	0.10	2	0	104	80-120	0			
Sulfate	9.67	1.0	10	0	96.7	80-120	0			
Nitrate/Nitrite (as N)	3.85	0.10	0	0	0	80-120	0			
Surr: Dichloroacetic acid (surr)	5.08	0.10	5	0	102	80-120	0			

LCSD Sample ID: WLCSDW1-10180 Test Code: E300 Units: mg/L Analysis Date: 10/18/04 19:16

Client ID: Run ID: IC201_041018A SeqNo: 557122 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.29	0.50	10	0	92.9	80-120	9.16	1.41	20	
Fluoride	2.03	0.10	2	0	101	80-120	2.08	2.43	20	
Sulfate	9.72	1.0	10	0	97.2	80-120	9.67	0.516	20	
Nitrate/Nitrite (as N)	3.85	0.10	0	0	0	80-120	3.85	0	20	
Surr: Dichloroacetic acid (surr)	5.08	0.10	5	0	102	80-120	5.08	0	20	

MS Sample ID: 0410181-07CMS Test Code: E300 Units: mg/L Analysis Date: 10/18/04 20:42

Client ID: Run ID: IC201_041018A SeqNo: 557125 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	309.6	5.0	100	189	121	75-125	0			
Fluoride	20.5	1.0	20	0.6	99.5	75-125	0			
Sulfate	371.2	10	100	255.7	116	75-125	0			
Nitrate/Nitrite (as N)	42.5	1.0	40	2.8	99.2	75-125	0			
Surr: Dichloroacetic acid (surr)	52.7	1.0	50	0	105	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R23926 InstrumentID: IC201

MSD Sample ID: 0410181-07CMSD Test Code: E300 Units: mg/L Analysis Date: 10/18/04 21:11

Client ID: Run ID: IC201_041018A SeqNo: 557126 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	304.8	5.0	100	189	116	75-125	309.6	1.56	20	
Fluoride	19.3	1.0	20	0.6	93.5	75-125	20.5	6.03	20	
Sulfate	372.6	10	100	255.7	117	75-125	371.2	0.376	20	
Nitrate/Nitrite (as N)	41.3	1.0	40	2.8	96.2	75-125	42.5	2.86	20	
Surr: Dichloroacetic acid (surr)	55.8	1.0	50	0	112	80-120	52.7	5.71	20	

DUP Sample ID: 0410181-07CDUP Test Code: E300 Units: mg/L Analysis Date: 10/18/04 20:14

Client ID: Run ID: IC201_041018A SeqNo: 557124 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	188.4	5.0	0	0	0	0-0	189	0.318	20	
Fluoride	0.6	1.0	0	0	0	0-0	0.6	0	20	J
Sulfate	254.3	10	0	0	0	0-0	255.7	0.549	20	
Nitrate/Nitrite (as N)	2.8	1.0	0	0	0	0-0	2.8	0	20	
Surr: Dichloroacetic acid (surr)	55.2	1.0	50	0	110	80-120	57.7	4.43	20	

DUP Sample ID: 0410139-06EDUP Test Code: E300 Units: mg/L Analysis Date: 10/19/04 14:17

Client ID: Run ID: IC201_041018A SeqNo: 557145 Prep Date: DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	937.5	25	0	0	0	0-0	938	0.0533	20	
Fluoride	ND	5.0	0	0	0	0-0	0	0	20	
Sulfate	589.5	50	0	0	0	0-0	589.5	0	20	
Nitrate/Nitrite (as N)	ND	5.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	288.5	5.0	250	0	115	80-120	261	10	20	

DUP Sample ID: 0410137-14BDUP Test Code: E300 Units: mg/L Analysis Date: 10/19/04 3:50

Client ID: Run ID: IC201_041018A SeqNo: 557148 Prep Date: DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1104	25	0	0	0	0-0	1106	0.136	20	
Fluoride	ND	5.0	0	0	0	0-0	0	0	20	
Sulfate	1764	50	0	0	0	0-0	1771	0.424	20	
Nitrate/Nitrite (as N)	ND	5.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	286	5.0	250	0	114	80-120	280	2.12	20	

The following samples were analyzed in this batch:

0410185-01B 0410185-02B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R24025 InstrumentID: UV-2101PC

MBLK		Sample ID: WBLKW1-102004		Test Code: E335.3		Units: mg/L		Analysis Date: 10/22/04 0:00			
Client ID:		Run ID: UV-2101PC_041022B		SeqNo: 559479		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		ND		0.020							
LCS		Sample ID: WLCSW1-102004		Test Code: E335.3		Units: mg/L		Analysis Date: 10/22/04 0:00			
Client ID:		Run ID: UV-2101PC_041022B		SeqNo: 559480		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		0.19	0.020	0.2		0	95	80-120		0	
MS		Sample ID: 0410197-02BMS		Test Code: E335.3		Units: mg/L		Analysis Date: 10/22/04 0:00			
Client ID:		Run ID: UV-2101PC_041022B		SeqNo: 559491		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		0.1912	0.020	0.2		0.002	94.6	75-125		0	
MSD		Sample ID: 0410197-02BMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 10/22/04 0:00			
Client ID:		Run ID: UV-2101PC_041022B		SeqNo: 559492		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		0.1978	0.020	0.2		0.002	97.9	75-125	0.1912	3.39	25
DUP		Sample ID: 0410197-02BDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 10/22/04 0:00			
Client ID:		Run ID: UV-2101PC_041022B		SeqNo: 559490		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		ND	0.020	0		0	0	0-0	0.002	0	20

The following samples were analyzed in this batch:

0410185-01D	0410185-02D	0410185-03D
0410185-04D	0410185-05D	

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Reference analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410185
Project: Annual

QC BATCH REPORT

Batch ID: R24091 InstrumentID: WetChem

MBLK Sample ID: WBLKW1-102604 Test Code: E310.1 Units: mg/L Analysis Date: 10/26/04 0:00

Client ID: Run ID: WETCHEM_041026C SeqNo: 561251 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: WLCCSW1-10260 Test Code: E310.1 Units: mg/L Analysis Date: 10/26/04 0:00

Client ID: Run ID: WETCHEM_041026C SeqNo: 561252 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	1	0	0-0		0		
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0		0		
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0		0		
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120		0		

DUP Sample ID: 0410192-04BDUP Test Code: E310.1 Units: mg/L Analysis Date: 10/26/04 0:00

Client ID: Run ID: WETCHEM_041026C SeqNo: 561272 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	40.01	5.0	0	0	0	0-0	40.01	0	20	
Alkalinity, Carbonate (As CaCO3)	300.1	5.0	0	0	0	0-0	300.1	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0		0	20	
Alkalinity, Total (As CaCO3)	340.1	5.0	0	0	0	0-0	340.1	0	20	

DUP Sample ID: 0410192-19BDUP Test Code: E310.1 Units: mg/L Analysis Date: 10/26/04 0:00

Client ID: Run ID: WETCHEM_041026C SeqNo: 561273 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Carbonate (As CaCO3)	2401	5.0	0	0	0	0-0	2401	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	2401	5.0	0	0	0	0-0	2401	0	20	

The following samples were analyzed in this batch:

0410185-01B	0410185-02B	0410185-03B
0410185-04B	0410185-05B	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 10/16/2004 8:40:00 AM

Work Order Number 0410185

Received by: RPM

Checklist completed by RICHARD SANCHEZ

Signature

Date

Reviewed by JP

Initials

Date 10/18/04

Matrix: Water

Carrier name FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 3.8c, 4.2c 002

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

Adjusted? No

Checked by PS

Login Notes: One trip blank not on COC; logged in without analysis.

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____

Date contacted: _____

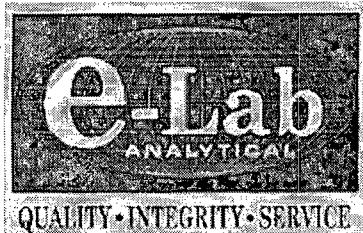
Person contacted _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action _____



e-Lab Analytical, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

October 22, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: Annual Sampling

Work Order : **0410086**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 5 samples on 10/8/2004 9:30:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 37.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by John Robert Paddison

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company

Project: Annual Sampling

Work Order: 0410086

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0410086-01	MW-18	Water		10/6/2004 10:00	10/8/2004 09:30	<input type="checkbox"/>
0410086-02	MW-45	Water		10/6/2004 10:30	10/8/2004 09:30	<input type="checkbox"/>
0410086-03	MW-29	Water		10/6/2004 09:20	10/8/2004 09:30	<input type="checkbox"/>
0410086-04	RW-13	Water		10/7/2004 09:50	10/8/2004 09:30	<input type="checkbox"/>
0410086-05	Trip Blank	Water		10/6/2004	10/8/2004 09:30	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: Annual Sampling
Work Order: 0410086

Case Narrative

Batch 10656 Metals MS/MSD was an unrelated sample.

Batch R23752 Volatiles (sample MW-18) MS/MSD recoveries were outside of control limits for 2-Chloroethyl vinyl ether (0 % and 0%). 2-Chloroethyl vinyl ether decomposes rapidly once introduced into a acidic matrix.

Batch R23712 Anions (sample MW-18) MS/MSD recoveries were outside of control limits for Chloride (77.7% and 72.7% was O flagged) and Sulfate (- and - was O and E flagged).

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-01

Client Sample ID: MW-18
Collection Date: 10/6/2004 10:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	Prep Date: 10/18/2004 Analyst: JCJ 10/19/2004 2:24:40 PM
ICP METALS, TOTAL				SW6020		Prep Date: 10/12/2004 Analyst: ALR
Aluminum	ND	0.0100		mg/L	1	10/14/2004 12:09:00 AM
Arsenic	ND	0.00500		mg/L	1	10/14/2004 12:09:00 AM
Barium	0.0120	0.00500		mg/L	1	10/14/2004 12:09:00 AM
Beryllium	ND	0.00200		mg/L	1	10/14/2004 12:09:00 AM
Boron	0.498	0.200		mg/L	10	10/13/2004 10:57:00 PM
Cadmium	ND	0.00100		mg/L	1	10/14/2004 12:09:00 AM
Calcium	349	25.0		mg/L	50	10/13/2004 10:39:00 PM
Chromium	ND	0.00200		mg/L	1	10/14/2004 12:09:00 AM
Cobalt	ND	0.00200		mg/L	1	10/14/2004 12:09:00 AM
Copper	0.00370	0.00200		mg/L	1	10/14/2004 12:09:00 AM
Iron	1.34	0.200		mg/L	1	10/14/2004 12:09:00 AM
Lead	ND	0.00500		mg/L	1	10/15/2004 8:48:00 PM
Magnesium	191	10.0		mg/L	50	10/13/2004 10:39:00 PM
Manganese	0.113	0.0500		mg/L	10	10/13/2004 10:57:00 PM
Molybdenum	0.0131	0.00500		mg/L	1	10/14/2004 12:09:00 AM
Nickel	0.00957	0.00500		mg/L	1	10/14/2004 12:09:00 AM
Potassium	1.16	0.200		mg/L	1	10/14/2004 12:09:00 AM
Selenium	0.00616	0.00500		mg/L	1	10/14/2004 12:09:00 AM
Silver	ND	0.00500		mg/L	1	10/14/2004 12:09:00 AM
Sodium	74.9	2.00		mg/L	10	10/13/2004 10:57:00 PM
Vanadium	0.0169	0.00500		mg/L	1	10/14/2004 12:09:00 AM
Zinc	0.00971	0.00500		mg/L	1	10/14/2004 12:09:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		Prep Date: 10/11/2004 Analyst: HV
1,2,4-Trichlorobenzene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	10/18/2004 1:50:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	10/18/2004 1:50:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
2-Methylphenol	ND	11		µg/L	1	10/18/2004 1:50:00 PM
2-Nitroaniline	ND	11		µg/L	1	10/18/2004 1:50:00 PM
2-Nitrophenol	ND	11		µg/L	1	10/18/2004 1:50:00 PM
3-Nitroaniline	ND	11		µg/L	1	10/18/2004 1:50:00 PM
4-Methylphenol	ND	11		µg/L	1	10/18/2004 1:50:00 PM
4-Nitroaniline	ND	11		µg/L	1	10/18/2004 1:50:00 PM
4-Nitrophenol	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Acenaphthene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Acenaphthylene	ND	11		µg/L	1	10/18/2004 1:50:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-01

Client Sample ID: MW-18
Collection Date: 10/6/2004 10:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Anthracene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Benz(a)anthracene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Benzidine	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Hexachloroethane	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Isophorone	ND	11		µg/L	1	10/18/2004 1:50:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	10/18/2004 1:50:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	10/18/2004 1:50:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Naphthalene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Nitrobenzene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Pentachlorophenol	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Phenanthrene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Phenol	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Pyrene	ND	11		µg/L	1	10/18/2004 1:50:00 PM
Surr: 2,4,6-Tribromophenol	94.1	39-153		%REC	1	10/18/2004 1:50:00 PM
Surr: 2-Fluorobiphenyl	86.5	40-147		%REC	1	10/18/2004 1:50:00 PM
Surr: 2-Fluorophenol	42.8	21-110		%REC	1	10/18/2004 1:50:00 PM
Surr: 4-Terphenyl-d14	88.6	39-141		%REC	1	10/18/2004 1:50:00 PM
Surr: Nitrobenzene-d5	91.4	37-140		%REC	1	10/18/2004 1:50:00 PM
Surr: Phenol-d6	27.8	11-100		%REC	1	10/18/2004 1:50:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
2-Butanone	ND	10		µg/L	1	10/11/2004 12:53:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	10/11/2004 12:53:00 PM
2-Hexanone	ND	10		µg/L	1	10/11/2004 12:53:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/11/2004 12:53:00 PM
Acetone	ND	10		µg/L	1	10/11/2004 12:53:00 PM
Benzene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Bromoform	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Bromomethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Carbon disulfide	ND	10		µg/L	1	10/11/2004 12:53:00 PM
Carbontetrachloride	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-01

Client Sample ID: MW-18
Collection Date: 10/6/2004 10:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Chloroethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Chloroform	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Chloromethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
m,p-Xylene	ND	10		µg/L	1	10/11/2004 12:53:00 PM
Methylene chloride	ND	10		µg/L	1	10/11/2004 12:53:00 PM
Styrene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Toluene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/11/2004 12:53:00 PM
Vinylacetate	ND	10		µg/L	1	10/11/2004 12:53:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/11/2004 12:53:00 PM
Xylenes, Total	ND	15		µg/L	1	10/11/2004 12:53:00 PM
Surr:1,2-Dichloroethane-d4	88.3	71-126		%REC	1	10/11/2004 12:53:00 PM
Surr:4-Bromofluorobenzene	94.6	74-125		%REC	1	10/11/2004 12:53:00 PM
Surr: Dibromofluoromethane	90.7	73-126		%REC	1	10/11/2004 12:53:00 PM
Surr: Toluene-d8	90.3	75-125		%REC	1	10/11/2004 12:53:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	203	2.50	mg/L	5	10/8/2004 3:36:00 PM
Fluoride	1.17	0.100	mg/L	1	10/8/2004 11:48:00 AM
Nitrogen, Nitrate (As N)	5.41	0.100	mg/L	1	10/8/2004 11:48:00 AM
Nitrogen, Nitrite (As N)	ND	0.100	mg/L	1	10/8/2004 11:48:00 AM
Sulfate	1,120	50.0	mg/L	50	10/11/2004 9:05:00 PM
Surr: Dichloroacetic acid (surr)	112	80-120	%REC	5	10/8/2004 3:36:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120	%REC	50	10/11/2004 9:05:00 PM
Surr: Dichloroacetic acid (surr)	118	80-120	%REC	1	10/8/2004 11:48:00 AM

ALKALINITY**E310.1**

Analyst: HDO

Alkalinity, Bicarbonate (As CaCO ₃)	410	5.00	mg/L	1	10/13/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/13/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/13/2004
Alkalinity, Total (As CaCO ₃)	410	5.00	mg/L	1	10/13/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	10/10/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-02

Client Sample ID: MW-45
Collection Date: 10/6/2004 10:30:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	PrepDate: 10/18/2004 Analyst: JCJ 10/19/2004 2:33:53 PM
ICP METALS, TOTAL			SW6020			PrepDate: 10/12/2004 Analyst: ALR
Aluminum	ND	0.0100		mg/L	1	10/14/2004 12:14:00 AM
Arsenic	0.0126	0.00500		mg/L	1	10/14/2004 12:14:00 AM
Barium	0.0121	0.00500		mg/L	1	10/14/2004 12:14:00 AM
Beryllium	ND	0.00200		mg/L	1	10/14/2004 12:14:00 AM
Boron	0.570	0.200		mg/L	10	10/13/2004 11:02:00 PM
Cadmium	ND	0.00100		mg/L	1	10/14/2004 12:14:00 AM
Calcium	408	25.0		mg/L	50	10/13/2004 10:43:00 PM
Chromium	ND	0.00200		mg/L	1	10/14/2004 12:14:00 AM
Cobalt	0.00399	0.00200		mg/L	1	10/14/2004 12:14:00 AM
Copper	0.00670	0.00200		mg/L	1	10/14/2004 12:14:00 AM
Iron	1.48	0.200		mg/L	1	10/14/2004 12:14:00 AM
Lead	ND	0.00500		mg/L	1	10/15/2004 8:53:00 PM
Magnesium	244	10.0		mg/L	50	10/13/2004 10:43:00 PM
Manganese	0.305	0.0500		mg/L	10	10/13/2004 11:02:00 PM
Molybdenum	0.0154	0.00500		mg/L	1	10/14/2004 12:14:00 AM
Nickel	0.0196	0.00500		mg/L	1	10/14/2004 12:14:00 AM
Potassium	2.06	0.200		mg/L	1	10/14/2004 12:14:00 AM
Selenium	0.00696	0.00500		mg/L	1	10/14/2004 12:14:00 AM
Silver	ND	0.00500		mg/L	1	10/14/2004 12:14:00 AM
Sodium	292	10.0		mg/L	50	10/13/2004 10:43:00 PM
Vanadium	0.0318	0.00500		mg/L	1	10/14/2004 12:14:00 AM
Zinc	0.0127	0.00500		mg/L	1	10/14/2004 12:14:00 AM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			PrepDate: 10/11/2004 Analyst: HV
1,2,4-Trichlorobenzene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
2,4,5-Trichlorophenol	ND	12		µg/L	1	10/18/2004 2:14:00 PM
2,4,6-Trichlorophenol	ND	12		µg/L	1	10/18/2004 2:14:00 PM
2-Methylnaphthalene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
2-Methylphenol	ND	12		µg/L	1	10/18/2004 2:14:00 PM
2-Nitroaniline	ND	12		µg/L	1	10/18/2004 2:14:00 PM
2-Nitrophenol	ND	12		µg/L	1	10/18/2004 2:14:00 PM
3-Nitroaniline	ND	12		µg/L	1	10/18/2004 2:14:00 PM
4-Methylphenol	ND	12		µg/L	1	10/18/2004 2:14:00 PM
4-Nitroaniline	ND	12		µg/L	1	10/18/2004 2:14:00 PM
4-Nitrophenol	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Acenaphthene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Acenaphthylene	ND	12		µg/L	1	10/18/2004 2:14:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-02

Client Sample ID: MW-45
Collection Date: 10/6/2004 10:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Anthracene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Benz(a)anthracene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Benzidine	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Hexachloroethane	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Indeno(1,2,3-cd)pyrene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Isophorone	ND	12		µg/L	1	10/18/2004 2:14:00 PM
N-Nitrosodi-n-propylamine	ND	12		µg/L	1	10/18/2004 2:14:00 PM
N-Nitrosodimethylamine	ND	12		µg/L	1	10/18/2004 2:14:00 PM
N-Nitrosodiphenylamine	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Naphthalene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Nitrobenzene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Pentachlorophenol	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Phenanthrene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Phenol	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Pyrene	ND	12		µg/L	1	10/18/2004 2:14:00 PM
Surr: 2,4,6-Tribromophenol	87.1	39-153		%REC	1	10/18/2004 2:14:00 PM
Surr: 2-Fluorobiphenyl	80.4	40-147		%REC	1	10/18/2004 2:14:00 PM
Surr: 2-Fluorophenol	42.7	21-110		%REC	1	10/18/2004 2:14:00 PM
Surr: 4-Terphenyl-d14	81.8	39-141		%REC	1	10/18/2004 2:14:00 PM
Surr: Nitrobenzene-d5	82.7	37-140		%REC	1	10/18/2004 2:14:00 PM
Surr: Phenol-d6	27.0	11-100		%REC	1	10/18/2004 2:14:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
2-Butanone	ND	10		µg/L	1	10/11/2004 1:21:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	10/11/2004 1:21:00 PM
2-Hexanone	ND	10		µg/L	1	10/11/2004 1:21:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/11/2004 1:21:00 PM
Acetone	ND	10		µg/L	1	10/11/2004 1:21:00 PM
Benzene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Bromoform	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Bromomethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Carbon disulfide	ND	10		µg/L	1	10/11/2004 1:21:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-02

Client Sample ID: MW-45
Collection Date: 10/6/2004 10:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Chloroethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Chloroform	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Chloromethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
m,p-Xylene	ND	10		µg/L	1	10/11/2004 1:21:00 PM
Methylene chloride	ND	10		µg/L	1	10/11/2004 1:21:00 PM
Styrene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Toluene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/11/2004 1:21:00 PM
Vinylacetate	ND	10		µg/L	1	10/11/2004 1:21:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/11/2004 1:21:00 PM
Xylenes, Total	ND	15		µg/L	1	10/11/2004 1:21:00 PM
Surr:1,2-Dichloroethane-d4	90.1	71-126		%REC	1	10/11/2004 1:21:00 PM
Surr:4-Bromofluorobenzene	97.1	74-125		%REC	1	10/11/2004 1:21:00 PM
Surr: Dibromofluoromethane	88.3	73-126		%REC	1	10/11/2004 1:21:00 PM
Surr: Toluene-d8	90.8	75-125		%REC	1	10/11/2004 1:21:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	375	5.00	mg/L	10
Fluoride	1.24	0.100	mg/L	1
Nitrogen, Nitrate (As N)	0.730	0.100	mg/L	1
Nitrogen, Nitrite (As N)	ND	0.100	mg/L	1
Sulfate	1,710	100	mg/L	100
Surr: Dichloroacetic acid (surr)	111	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	100
Surr: Dichloroacetic acid (surr)	112	80-120	%REC	1

ALKALINITY

		E310.1		Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	500	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	500	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-03

Client Sample ID: MW-29
Collection Date: 10/6/2004 9:20:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	10/19/2004 2:35:23 PM
ICP METALS, TOTAL			SW6020			
Aluminum	ND	0.0100		mg/L	1	10/14/2004 12:19:00 AM
Arsenic	ND	0.00500		mg/L	1	10/14/2004 12:19:00 AM
Barium	0.0172	0.00500		mg/L	1	10/14/2004 12:19:00 AM
Beryllium	ND	0.00200		mg/L	1	10/14/2004 12:19:00 AM
Boron	0.725	0.200		mg/L	10	10/13/2004 11:07:00 PM
Cadmium	ND	0.00100		mg/L	1	10/14/2004 12:19:00 AM
Calcium	297	25.0		mg/L	50	10/13/2004 10:48:00 PM
Chromium	ND	0.00200		mg/L	1	10/14/2004 12:19:00 AM
Cobalt	ND	0.00200		mg/L	1	10/14/2004 12:19:00 AM
Copper	0.0625	0.00200		mg/L	1	10/14/2004 12:19:00 AM
Iron	1.32	0.200		mg/L	1	10/14/2004 12:19:00 AM
Lead	ND	0.00500		mg/L	1	10/15/2004 8:57:00 PM
Magnesium	245	10.0		mg/L	50	10/13/2004 10:48:00 PM
Manganese	0.313	0.0500		mg/L	10	10/13/2004 11:07:00 PM
Molybdenum	ND	0.00500		mg/L	1	10/14/2004 12:19:00 AM
Nickel	0.00814	0.00500		mg/L	1	10/14/2004 12:19:00 AM
Potassium	4.88	0.200		mg/L	1	10/14/2004 12:19:00 AM
Selenium	ND	0.00500		mg/L	1	10/14/2004 12:19:00 AM
Silver	ND	0.00500		mg/L	1	10/14/2004 12:19:00 AM
Sodium	251	10.0		mg/L	50	10/13/2004 10:48:00 PM
Vanadium	ND	0.00500		mg/L	1	10/14/2004 12:19:00 AM
Zinc	0.0410	0.00500		mg/L	1	10/14/2004 12:19:00 AM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
2,4,5-Trichlorophenol	ND	12		µg/L	1	10/18/2004 2:38:00 PM
2,4,6-Trichlorophenol	ND	12		µg/L	1	10/18/2004 2:38:00 PM
2-Methylnaphthalene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
2-Methylphenol	ND	12		µg/L	1	10/18/2004 2:38:00 PM
2-Nitroaniline	ND	12		µg/L	1	10/18/2004 2:38:00 PM
2-Nitrophenol	ND	12		µg/L	1	10/18/2004 2:38:00 PM
3-Nitroaniline	ND	12		µg/L	1	10/18/2004 2:38:00 PM
4-Methylphenol	ND	12		µg/L	1	10/18/2004 2:38:00 PM
4-Nitroaniline	ND	12		µg/L	1	10/18/2004 2:38:00 PM
4-Nitrophenol	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Acenaphthene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Acenaphthylene	ND	12		µg/L	1	10/18/2004 2:38:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-03

Client Sample ID: MW-29
Collection Date: 10/6/2004 9:20:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Anthracene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Benz(a)anthracene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Benzidine	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Hexachloroethane	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Indeno(1,2,3-cd)pyrene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Isophorone	ND	12		µg/L	1	10/18/2004 2:38:00 PM
N-Nitrosodi-n-propylamine	ND	12		µg/L	1	10/18/2004 2:38:00 PM
N-Nitrosodimethylamine	ND	12		µg/L	1	10/18/2004 2:38:00 PM
N-Nitrosodiphenylamine	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Naphthalene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Nitrobenzene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Pentachlorophenol	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Phenanthrene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Phenol	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Pyrene	ND	12		µg/L	1	10/18/2004 2:38:00 PM
Surr: 2,4,6-Tribromophenol	91.1	39-153		%REC	1	10/18/2004 2:38:00 PM
Surr: 2-Fluorobiphenyl	86.7	40-147		%REC	1	10/18/2004 2:38:00 PM
Surr: 2-Fluorophenol	44.1	21-110		%REC	1	10/18/2004 2:38:00 PM
Surr: 4-Terphenyl-d14	87.5	39-141		%REC	1	10/18/2004 2:38:00 PM
Surr: Nitrobenzene-d5	87.5	37-140		%REC	1	10/18/2004 2:38:00 PM
Surr: Phenol-d6	27.4	11-100		%REC	1	10/18/2004 2:38:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	10/11/2004 1:48:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	10/11/2004 1:48:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	10/11/2004 1:48:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	10/11/2004 1:48:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	10/11/2004 1:48:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	10/11/2004 1:48:00 PM
2-Butanone	ND	10	µg/L	10/11/2004 1:48:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	10/11/2004 1:48:00 PM
2-Hexanone	ND	10	µg/L	10/11/2004 1:48:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	10/11/2004 1:48:00 PM
Acetone	ND	10	µg/L	10/11/2004 1:48:00 PM
Benzene	ND	5.0	µg/L	10/11/2004 1:48:00 PM
Bromodichloromethane	ND	5.0	µg/L	10/11/2004 1:48:00 PM
Bromoform	ND	5.0	µg/L	10/11/2004 1:48:00 PM
Bromomethane	ND	5.0	µg/L	10/11/2004 1:48:00 PM
Carbon disulfide	ND	10	µg/L	10/11/2004 1:48:00 PM
Carbontetrachloride	ND	5.0	µg/L	10/11/2004 1:48:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-03

Client Sample ID: MW-29
Collection Date: 10/6/2004 9:20:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Chloroethane	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Chloroform	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Chloromethane	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Dibromo-chloromethane	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
m,p-Xylene	ND	10		µg/L	1	10/11/2004 1:48:00 PM
Methylene chloride	ND	10		µg/L	1	10/11/2004 1:48:00 PM
Styrene	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Toluene	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/11/2004 1:48:00 PM
Vinylacetate	ND	10		µg/L	1	10/11/2004 1:48:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/11/2004 1:48:00 PM
Xylenes, Total	ND	15		µg/L	1	10/11/2004 1:48:00 PM
Surr: 1,2-Dichloroethane-d4	92.1	71-126		%REC	1	10/11/2004 1:48:00 PM
Surr: 4-Bromofluorobenzene	106	74-125		%REC	1	10/11/2004 1:48:00 PM
Surr: Dibromofluoromethane	94.5	73-126		%REC	1	10/11/2004 1:48:00 PM
Surr: Toluene-d8	106	75-125		%REC	1	10/11/2004 1:48:00 PM

ANIONS BY ION CHROMATOGRAPHY

E300

Analyst: MG

Chloride	395	5.00	mg/L	10	10/12/2004 12:53:00 AM
Fluoride	1.68	0.100	mg/L	1	10/8/2004 5:58:00 PM
Nitrogen, Nitrate (As N)	ND	0.100	mg/L	1	10/8/2004 5:58:00 PM
Nitrogen, Nitrite (As N)	ND	0.100	mg/L	1	10/8/2004 5:58:00 PM
Sulfate	1,160	50.0	mg/L	50	10/12/2004 1:22:00 AM
Surr: Dichloroacetic acid (surr)	107	80-120	%REC	10	10/12/2004 12:53:00 AM
Surr: Dichloroacetic acid (surr)	108	80-120	%REC	50	10/12/2004 1:22:00 AM
Surr: Dichloroacetic acid (surr)	111	80-120	%REC	1	10/8/2004 5:58:00 PM

ALKALINITY

E310.1

Analyst: HDO

Alkalinity, Bicarbonate (As CaCO ₃)	750	5.00	mg/L	1	10/13/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/13/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/13/2004
Alkalinity, Total (As CaCO ₃)	750	5.00	mg/L	1	10/13/2004

CYANIDE, TOTAL

E335.3

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	10/10/2004
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-04

Client Sample ID: RW-13
Collection Date: 10/7/2004 9:50:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	Prep Date: 10/18/2004 Analyst: JCJ 10/19/2004 2:36:54 PM
ICP METALS, TOTAL			SW6020			Prep Date: 10/12/2004 Analyst: ALR
Aluminum	0.182	0.0100		mg/L	1	10/14/2004 12:24:00 AM
Arsenic	0.0101	0.00500		mg/L	1	10/14/2004 12:24:00 AM
Barium	0.0214	0.00500		mg/L	1	10/14/2004 12:24:00 AM
Beryllium	ND	0.00200		mg/L	1	10/14/2004 12:24:00 AM
Boron	1.11	0.200		mg/L	10	10/13/2004 11:11:00 PM
Cadmium	ND	0.00100		mg/L	1	10/14/2004 12:24:00 AM
Calcium	539	25.0		mg/L	50	10/13/2004 10:53:00 PM
Chromium	ND	0.00200		mg/L	1	10/14/2004 12:24:00 AM
Cobalt	0.00248	0.00200		mg/L	1	10/14/2004 12:24:00 AM
Copper	0.0896	0.00200		mg/L	1	10/14/2004 12:24:00 AM
Iron	2.21	0.200		mg/L	1	10/14/2004 12:24:00 AM
Lead	ND	0.00500		mg/L	1	10/15/2004 9:02:00 PM
Magnesium	345	10.0		mg/L	50	10/13/2004 10:53:00 PM
Manganese	0.292	0.0500		mg/L	10	10/13/2004 11:11:00 PM
Molybdenum	0.0137	0.00500		mg/L	1	10/14/2004 12:24:00 AM
Nickel	0.0179	0.00500		mg/L	1	10/14/2004 12:24:00 AM
Potassium	1.87	0.200		mg/L	1	10/14/2004 12:24:00 AM
Selenium	0.00877	0.00500		mg/L	1	10/14/2004 12:24:00 AM
Silver	ND	0.00500		mg/L	1	10/14/2004 12:24:00 AM
Sodium	291	10.0		mg/L	50	10/13/2004 10:53:00 PM
Vanadium	0.0397	0.00500		mg/L	1	10/14/2004 12:24:00 AM
Zinc	0.0305	0.00500		mg/L	1	10/14/2004 12:24:00 AM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			Prep Date: 10/11/2004 Analyst: HV
1,2,4-Trichlorobenzene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	10/18/2004 3:02:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	10/18/2004 3:02:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
2-Methylphenol	ND	11		µg/L	1	10/18/2004 3:02:00 PM
2-Nitroaniline	ND	11		µg/L	1	10/18/2004 3:02:00 PM
2-Nitrophenol	ND	11		µg/L	1	10/18/2004 3:02:00 PM
3-Nitroaniline	ND	11		µg/L	1	10/18/2004 3:02:00 PM
4-Methylphenol	ND	11		µg/L	1	10/18/2004 3:02:00 PM
4-Nitroaniline	ND	11		µg/L	1	10/18/2004 3:02:00 PM
4-Nitrophenol	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Acenaphthene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Acenaphthylene	ND	11		µg/L	1	10/18/2004 3:02:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-04

Client Sample ID: RW-13
Collection Date: 10/7/2004 9:50:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Anthracene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Benz(a)anthracene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Benzidine	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Hexachloroethane	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Isophorone	ND	11		µg/L	1	10/18/2004 3:02:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	10/18/2004 3:02:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	10/18/2004 3:02:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Naphthalene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Nitrobenzene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Pentachlorophenol	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Phenanthrene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Phenol	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Pyrene	ND	11		µg/L	1	10/18/2004 3:02:00 PM
Surr: 2,4,6-Tribromophenol	98.9	39-153		%REC	1	10/18/2004 3:02:00 PM
Surr: 2-Fluorobiphenyl	88.4	40-147		%REC	1	10/18/2004 3:02:00 PM
Surr: 2-Fluorophenol	42.2	21-110		%REC	1	10/18/2004 3:02:00 PM
Surr: 4-Terphenyl-d14	92.7	39-141		%REC	1	10/18/2004 3:02:00 PM
Surr: Nitrobenzene-d5	90.8	37-140		%REC	1	10/18/2004 3:02:00 PM
Surr: Phenol-d6	27.7	11-100		%REC	1	10/18/2004 3:02:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
2-Butanone	ND	10		µg/L	1	10/11/2004 2:15:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	10/11/2004 2:15:00 PM
2-Hexanone	ND	10		µg/L	1	10/11/2004 2:15:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	10/11/2004 2:15:00 PM
Acetone	ND	10		µg/L	1	10/11/2004 2:15:00 PM
Benzene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Bromoform	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Bromomethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Carbon disulfide	ND	10		µg/L	1	10/11/2004 2:15:00 PM
Carbontetrachloride	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: October 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling
Lab ID: 0410086-04

Client Sample ID: RW-13
Collection Date: 10/7/2004 9:50:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Chloroethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Chloroform	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Chloromethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Ethylbenzene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
m,p-Xylene	ND	10		µg/L	1	10/11/2004 2:15:00 PM
Methylene chloride	ND	10		µg/L	1	10/11/2004 2:15:00 PM
Styrene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Toluene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Trichloroethene	ND	5.0		µg/L	1	10/11/2004 2:15:00 PM
Vinylacetate	ND	10		µg/L	1	10/11/2004 2:15:00 PM
Vinyl chloride	ND	2.0		µg/L	1	10/11/2004 2:15:00 PM
Xylenes, Total	ND	15		µg/L	1	10/11/2004 2:15:00 PM
Surr:1,2-Dichloroethane-d4	90.8	71-126		%REC	1	10/11/2004 2:15:00 PM
Surr:4-Bromofluorobenzene	93.0	74-125		%REC	1	10/11/2004 2:15:00 PM
Surr: Dibromofluoromethane	91.2	73-126		%REC	1	10/11/2004 2:15:00 PM
Surr: Toluene-d8	90.5	75-125		%REC	1	10/11/2004 2:15:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	450	10.0	mg/L	20	10/12/2004 1:50:00 AM
Fluoride	2.33	0.100	mg/L	1	10/8/2004 6:55:00 PM
Nitrogen, Nitrate (As N)	0.390	0.100	mg/L	1	10/8/2004 6:55:00 PM
Nitrogen, Nitrite (As N)	ND	0.100	mg/L	1	10/8/2004 6:55:00 PM
Sulfate	2,280	100	mg/L	100	10/12/2004 2:19:00 AM
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	20	10/12/2004 1:50:00 AM
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	100	10/12/2004 2:19:00 AM
Surr: Dichloroacetic acid (surr)	102	80-120	%REC	1	10/8/2004 6:55:00 PM

ALKALINITY**E310.1**

Analyst: HDO

Alkalinity, Bicarbonate (As CaCO ₃)	550	5.00	mg/L	1	10/13/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	10/13/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	10/13/2004
Alkalinity, Total (As CaCO ₃)	550	5.00	mg/L	1	10/13/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	10/10/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Oct 22 2004

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: 10686 InstrumentID: ICP4500

MBLK Sample ID: MBLKW1-101204		Test Code: SW6020		Units: mg/L		Analysis Date: 10/13/04 14:18		
Client ID: Run ID: ICP4500_041013A		SeqNo: 554077		Prep Date: 10/12/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	ND	0.010						
Arsenic	ND	0.0050						
Barium	0.0008214	0.0050						J
Beryllium	ND	0.0020						
Boron	ND	0.020						
Cadmium	ND	0.0020						
Calcium	ND	0.50						
Chromium	ND	0.0050						
Cobalt	ND	0.0050						
Copper	ND	0.0050						
Iron	ND	0.20						
Lead	ND	0.0050						
Magnesium	ND	0.20						
Manganese	ND	0.0050						
Molybdenum	ND	0.0050						
Nickel	ND	0.0050						
Potassium	ND	0.20						
Selenium	ND	0.0050						
Sodium	ND	0.20						
Vanadium	ND	0.0050						
Zinc	ND	0.0050						

MBLK Sample ID: MBLKW1-101204		Test Code: SW6020		Units: mg/L		Analysis Date: 10/14/04 13:59		
Client ID: Run ID: ICP7500_041014A		SeqNo: 554773		Prep Date: 10/12/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Silver	ND	0.0050						

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: 10686 InstrumentID: ICP4500

LCS	Sample ID: MLCSW1-101204	Test Code: SW6020		Units: mg/L		Analysis Date: 10/13/04 14:22			
Client ID:		Run ID:	ICP4500_041013A	SeqNo:	554078	Prep Date:	10/12/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Aluminum	0.04582	0.010	0.05	0	91.6	79-126	0	0	
Arsenic	0.04754	0.0050	0.05	0	95.1	80-121	0	0	
Barium	0.04312	0.0050	0.05	0	86.2	79.8-119	0	0	
Beryllium	0.049	0.0020	0.05	0	98	78.9-120	0	0	
Boron	0.5031	0.020	0.5	0	101	80-120	0	0	
Cadmium	0.04957	0.0020	0.05	0	99.1	79.1-119	0	0	
Calcium	4.578	0.50	5	0	91.6	80-121	0	0	
Chromium	0.04377	0.0050	0.05	0	87.5	79.3-121	0	0	
Cobalt	0.04456	0.0050	0.05	0	89.1	82-121	0	0	
Copper	0.04377	0.0050	0.05	0	87.5	83-121	0	0	
Iron	4.704	0.20	5	0	94.1	80-120	0	0	
Lead	0.0435	0.0050	0.05	0	87	80-118	0	0	
Magnesium	4.767	0.20	5	0	95.3	80-120	0	0	
Manganese	0.04439	0.0050	0.05	0	88.8	82-119	0	0	
Molybdenum	0.04266	0.0050	0.05	0	85.3	84.6-115	0	0	
Nickel	0.04529	0.0050	0.05	0	90.6	85-120	0	0	
Potassium	4.763	0.20	5	0	95.3	80-120	0	0	
Selenium	0.04585	0.0050	0.05	0	91.7	79.2-118	0	0	
Sodium	4.585	0.20	5	0	91.7	82.4-120	0	0	
Vanadium	0.0441	0.0050	0.05	0	88.2	82.1-119	0	0	
Zinc	0.04784	0.0050	0.05	0	95.7	83-118	0	0	

LCS	Sample ID: MLCSW1-101204	Test Code: SW6020		Units: mg/L		Analysis Date: 10/14/04 14:57			
Client ID:		Run ID:	ICP7500_041014A	SeqNo:	554776	Prep Date:	10/12/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Silver	0.05153	0.0050	0.05	0	103	83-117	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: **10686** InstrumentID: **ICP4500**

MS	Sample ID: 0410105-10CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 10/13/04 14:45			
Client ID:	Run ID: ICP4500_041013A	SeqNo:	554095	Prep Date: 10/12/2004	DF:	1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04904	0.010	0.05	0.0066	84.9	79-126		0		
Arsenic	0.04576	0.0050	0.05	0.0007392	90	80-121		0		
Barium	0.04238	0.0050	0.05	-0.0001451	85.1	79.8-119		0		
Beryllium	0.04702	0.0020	0.05	0.00005635	93.9	78.9-120		0		
Boron	0.4799	0.020	0	0.01247	0	80-120		0		
Cadmium	0.04812	0.0020	0.05	0.00006253	96.1	79.1-119		0		
Calcium	4.605	0.50	5	0.08243	90.5	80-121		0		
Chromium	0.04355	0.0050	0.05	0.00007409	87	79.3-121		0		
Cobalt	0.04408	0.0050	0.05	0.00006007	88	82-121		0		
Copper	0.04387	0.0050	0.05	0.0006292	86.5	83-121		0		
Iron	4.638	0.20	5	0.02406	92.3	80-120		0		
Lead	0.04299	0.0050	0.05	0.0001134	85.8	80-118		0		
Magnesium	4.641	0.20	5	0.02996	92.2	80-120		0		
Manganese	0.04377	0.0050	0.05	0.000444	86.7	82-119		0		
Molybdenum	0.04221	0.0050	0.05	0.0006974	83	84.6-115		0		S
Nickel	0.04396	0.0050	0.05	0.00008181	87.8	85-120		0		
Potassium	4.776	0.20	5	0.1092	93.3	80-120		0		
Selenium	0.04619	0.0050	0.05	-0.0001519	92.7	79.2-118		0		
Silver	0.04081	0.0050	0.05	0.00005271	81.5	83-117		0		S
Sodium	4.827	0.20	5	0.3191	90.2	82.4-120		0		
Vanadium	0.04357	0.0050	0.05	0.0003446	86.5	82.1-119		0		
Zinc	0.04708	0.0050	0.05	0.002897	88.4	83-118		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: 10686 InstrumentID: ICP4500

MSD	Sample ID: 0410105-10CMSD	Test Code: SW6020		Units: mg/L		Analysis Date: 10/13/04 14:50				
Client ID:		Run ID:	ICP4500_041013A	SeqNo:	554096	Prep Date:	10/12/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.05121	0.010	0.05	0.0066	89.2	79-126	0.04904	4.33	15	
Arsenic	0.04884	0.0050	0.05	0.0007392	96.2	80-121	0.04576	6.51	15	
Barium	0.04364	0.0050	0.05	-0.0001451	87.6	79.8-119	0.04238	2.93	15	
Beryllium	0.04664	0.0020	0.05	0.00005635	93.2	78.9-120	0.04702	0.811	15	
Boron	0.4876	0.020	0	0.01247	0	80-120	0.4799	1.59	15	
Cadmium	0.04955	0.0020	0.05	0.00006253	99	79.1-119	0.04812	2.93	15	
Calcium	4.71	0.50	5	0.08243	92.6	80-121	4.605	2.25	15	
Chromium	0.04512	0.0050	0.05	0.00007409	90.1	79.3-121	0.04355	3.54	15	
Cobalt	0.04521	0.0050	0.05	0.00006007	90.3	82-121	0.04408	2.53	15	
Copper	0.04507	0.0050	0.05	0.0006292	88.9	83-121	0.04387	2.7	15	
Iron	4.802	0.20	5	0.02406	95.6	80-120	4.638	3.47	15	
Lead	0.04436	0.0050	0.05	0.0001134	88.5	80-118	0.04299	3.14	15	
Magnesium	4.98	0.20	5	0.02996	99	80-120	4.641	7.05	15	
Manganese	0.04484	0.0050	0.05	0.000444	88.8	82-119	0.04377	2.42	15	
Molybdenum	0.04398	0.0050	0.05	0.0006974	86.6	84.6-115	0.04221	4.11	15	
Nickel	0.04608	0.0050	0.05	0.00008181	92	85-120	0.04396	4.71	15	
Potassium	4.945	0.20	5	0.1092	96.7	80-120	4.776	3.48	15	
Selenium	0.04854	0.0050	0.05	-0.0001519	97.4	79.2-118	0.04619	4.96	15	
Silver	0.042	0.0050	0.05	0.00005271	83.9	83-117	0.04081	2.87	15	
Sodium	5.103	0.20	5	0.3191	95.7	82.4-120	4.827	5.56	15	
Vanadium	0.04505	0.0050	0.05	0.0003446	89.4	82.1-119	0.04357	3.34	15	
Zinc	0.04776	0.0050	0.05	0.002897	89.7	83-118	0.04708	1.43	15	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: 10686 InstrumentID: ICP4500

DUP	Sample ID: 0410105-10CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 10/13/04 14:40				
Client ID:		Run ID:	ICP4500_041013A	SeqNo:	554094	Prep Date:	10/12/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.006833	0.010	0	0	0	0-0	0.0066	0	25	J
Arsenic	ND	0.0050	0	0	0	0-0	0.0007392	0	25	
Barium	ND	0.0050	0	0	0	0-0	-0.0001451	0	25	
Beryllium	ND	0.0020	0	0	0	0-0	0.00005635	0	25	
Boron	ND	0.020	0	0	0	0-0	0.01247	0	25	
Cadmium	ND	0.0020	0	0	0	0-0	0.00006253	0	25	
Calcium	0.08102	0.50	0	0	0	0-0	0.08243	0	25	J
Chromium	ND	0.0050	0	0	0	0-0	0.00007409	0	25	
Cobalt	ND	0.0050	0	0	0	0-0	0.00006007	0	25	
Copper	0.0005989	0.0050	0	0	0	0-0	0.0006292	0	25	J
Iron	ND	0.20	0	0	0	0-0	0.02406	0	25	
Lead	ND	0.0050	0	0	0	0-0	0.0001134	0	25	
Magnesium	0.02817	0.20	0	0	0	0-0	0.02996	0	25	J
Manganese	ND	0.0050	0	0	0	0-0	0.000444	0	25	
Molybdenum	ND	0.0050	0	0	0	0-0	0.0006974	0	25	
Nickel	ND	0.0050	0	0	0	0-0	0.00008181	0	25	
Potassium	0.1019	0.20	0	0	0	0-0	0.1092	0	25	J
Selenium	ND	0.0050	0	0	0	0-0	-0.0001519	0	25	
Silver	ND	0.0050	0	0	0	0-0	0.00005271	0	25	
Sodium	0.2694	0.20	0	0	0	0-0	0.3191	16.9	25	
Vanadium	ND	0.0050	0	0	0	0-0	0.0003446	0	25	
Zinc	0.002087	0.0050	0	0	0	0-0	0.002897	0	25	J

The following samples were analyzed in this batch:

0410086-01C	0410086-02C	0410086-03C
0410086-04C		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: 10761 InstrumentID: Mercury

MBLK Sample ID: GBLKW2-101904			Test Code: SW7470		Units: mg/L		Analysis Date: 10/19/04 14:17			
Client ID: Run ID: MERCURY_041019C SeqNo: 557162										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0		0		
LCS Sample ID: GLCSW2-101904			Test Code: SW7470		Units: mg/L		Analysis Date: 10/19/04 14:19			
Client ID: Run ID: MERCURY_041019C SeqNo: 557163										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00511	0.00020	0.005	0	102	83-115		0		
LCSD Sample ID: GLCSDW2-101904			Test Code: SW7470		Units: mg/L		Analysis Date: 10/19/04 14:20			
Client ID: Run ID: MERCURY_041019C SeqNo: 557164										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00519	0.00020	0.005	0	104	83-115	0.00511	1.55	20	
MS Sample ID: 0410086-01CMS			Test Code: SW7470		Units: mg/L		Analysis Date: 10/19/04 14:27			
Client ID: MW-18 Run ID: MERCURY_041019C SeqNo: 557167										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00489	0.00020	0.005	-0.000056	98.9	83-115		0		
MSD Sample ID: 0410086-01CMDS			Test Code: SW7470		Units: mg/L		Analysis Date: 10/19/04 14:29			
Client ID: MW-18 Run ID: MERCURY_041019C SeqNo: 557168										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00489	0.00020	0.005	-0.000056	98.9	83-115	0.00489	0	20	
DUP Sample ID: 0410086-01CDUP			Test Code: SW7470		Units: mg/L		Analysis Date: 10/19/04 14:26			
Client ID: MW-18 Run ID: MERCURY_041019C SeqNo: 557166										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000056	0	20	

The following samples were analyzed in this batch:

0410086-01C	0410086-02C	0410086-03C
0410086-04C		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: 10671 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-041011	Test Code: SW8270		Units: µg/L		Analysis Date: 10/12/04 18:20			
Client ID:		Run ID:	SV-3_041012B	SeqNo:	554777	Prep Date:	10/11/2004	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3-Nitroaniline	ND	10							
4-Methylphenol	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrone	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrone-d10	40	0							
Surr: 2,4,6-Tribromophenol	94.37	10	100	0	94.4	39-153		0	
Surr: 2-Fluorobiphenyl	87.31	10	100	0	87.3	40-147		0	
Surr: 2-Fluorophenol	41.39	10	100	0	41.4	21-110		0	
Surr: 4-Terphenyl-d14	93.15	10	100	0	93.2	39-141		0	
Surr: Nitrobenzene-d5	91.53	10	100	0	91.5	37-140		0	
Surr: Phenol-d6	25.96	10	100	0	26	11-100		0	

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

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U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: 10671 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-041011	Test Code: SW8270		Units: µg/L		Analysis Date: 10/12/04 18:43			
Client ID:		Run ID:	SV-3_041012B	SeqNo:	554778	Prep Date:	10/11/2004	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,2,4-Trichlorobenzene	42.15	10	50	0	84.3	50-115	0	0	
2,4,5-Trichlorophenol	86.62	10	100	0	86.6	68-128	0	0	
2,4,6-Trichlorophenol	82.08	10	100	0	82.1	66-125	0	0	
2-Methylnaphthalene	45.83	10	50	0	91.7	47-122	0	0	
2-Methylphenol	65.15	10	100	0	65.1	51-115	0	0	
2-Nitroaniline	40.24	10	50	0	80.5	64-128	0	0	
2-Nitrophenol	81.95	10	100	0	82	60-119	0	0	
3-Nitroaniline	40.16	10	50	0	80.3	61-118	0	0	
4-Methylphenol	88.44	10	150	0	59	44-115	0	0	
4-Nitroaniline	38.49	10	50	0	77	61-123	0	0	
4-Nitrophenol	33.3	10	100	0	33.3	17-100	0	0	
Acenaphthene	42.98	10	50	0	86	68-115	0	0	
Acenaphthylene	43.25	10	50	0	86.5	67-116	0	0	
Aniline	35.48	10	50	0	71	40-130	0	0	
Anthracene	47.26	10	50	0	94.5	70-129	0	0	
Benz(a)anthracene	43.09	10	50	0	86.2	55-131	0	0	
Benzidine	20.04	10	50	0	40.1	10-115	0	0	
Hexachloroethane	34.84	10	50	0	69.7	46-115	0	0	
Indeno(1,2,3-cd)pyrene	35.38	10	50	0	70.8	42-123	0	0	
Isophorone	45.98	10	50	0	92	63-117	0	0	
N-Nitrosodi-n-propylamine	39.98	10	50	0	80	67-115	0	0	
N-Nitrosodimethylamine	20.24	10	50	0	40.5	28-115	0	0	
N-Nitrosodiphenylamine	49.55	10	50	0	99.1	72-144	0	0	
Naphthalene	42.16	10	50	0	84.3	52-115	0	0	
Nitrobenzene	43.19	10	50	0	86.4	65-115	0	0	
Pentachlorophenol	94	10	100	0	94	65-123	0	0	
Phenanthrene	45.19	10	50	0	90.4	69-119	0	0	
Phenol	29.45	10	100	0	29.4	16-115	0	0	
Pyrene	43.22	10	50	0	86.4	51-130	0	0	
Surr: 2,4,6-Tribromophenol	99.8	10	100	0	99.8	39-153	0	0	
Surr: 2-Fluorobiphenyl	87.31	10	100	0	87.3	40-147	0	0	
Surr: 2-Fluorophenol	45.77	10	100	0	45.8	21-110	0	0	
Surr: 4-Terphenyl-d14	89.91	10	100	0	89.9	39-141	0	0	
Surr: Nitrobenzene-d5	88.92	10	100	0	88.9	37-140	0	0	
Surr: Phenol-d6	29.5	10	100	0	29.5	11-100	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: 10671 InstrumentID: SV-3

LCSD Sample ID: SLCSDW1-041011		Test Code: SW8270		Units: µg/L		Analysis Date: 10/12/04 19:08				
Client ID:	Run ID:	SeqNo:		554779	Prep Date:	10/11/2004	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	47.43	10	50	0	94.9	50-115	0	0	30	
2,4,5-Trichlorophenol	90.8	10	100	0	90.8	68-128	0	0	30	
2,4,6-Trichlorophenol	87.6	10	100	0	87.6	66-125	0	0	30	
2-Methylnaphthalene	48.19	10	50	0	96.4	47-122	0	0	30	
2-Methylphenol	75.16	10	100	0	75.2	51-115	0	0	30	
2-Nitroaniline	43.41	10	50	0	86.8	64-128	0	0	30	
2-Nitrophenol	90.79	10	100	0	90.8	60-119	0	0	30	
3-Nitroaniline	41.41	10	50	0	82.8	61-118	0	0	30	
4-Methylphenol	102	10	150	0	68	44-115	0	0	30	
4-Nitroaniline	41.13	10	50	0	82.3	61-123	0	0	30	
4-Nitrophenol	37.07	10	100	0	37.1	17-100	0	0	30	
Acenaphthene	46.12	10	50	0	92.2	68-115	0	0	30	
Acenaphthylene	46.19	10	50	0	92.4	67-116	0	0	30	
Aniline	34.11	10	50	0	68.2	40-130	0	0	30	
Anthracene	49.49	10	50	0	99	70-129	0	0	30	
Benz(a)anthracene	47.22	10	50	0	94.4	55-131	0	0	30	
Benzidine	18.1	10	50	0	36.2	10-115	0	0	30	
Hexachloroethane	44.87	10	50	0	89.7	46-115	0	0	30	
Indeno(1,2,3-cd)pyrene	38.7	10	50	0	77.4	42-123	0	0	30	
Isophorone	48.79	10	50	0	97.6	63-117	0	0	30	
N-Nitrosodi-n-propylamine	45.72	10	50	0	91.4	67-115	0	0	30	
N-Nitrosodimethylamine	18.27	10	50	0	36.5	28-115	0	0	30	
N-Nitrosodiphenylamine	51.34	10	50	0	103	72-144	0	0	30	
Naphthalene	47.07	10	50	0	94.1	52-115	0	0	30	
Nitrobenzene	47.37	10	50	0	94.7	65-115	0	0	30	
Pentachlorophenol	99.1	10	100	0	99.1	65-123	0	0	30	
Phenanthrene	46.64	10	50	0	93.3	69-119	0	0	30	
Phenol	28.99	10	100	0	29	16-115	0	0	30	
Pyrene	45.61	10	50	0	91.2	51-130	0	0	30	
Surr: 2,4,6-Tribromophenol	98.29	10	100	0	98.3	39-153	0	0	30	
Surr: 2-Fluorobiphenyl	87.5	10	100	0	87.5	40-147	0	0	30	
Surr: 2-Fluorophenol	41.69	10	100	0	41.7	21-110	0	0	30	
Surr: 4-Terphenyl-d14	92.67	10	100	0	92.7	39-141	0	0	30	
Surr: Nitrobenzene-d5	90.93	10	100	0	90.9	37-140	0	0	30	
Surr: Phenol-d6	27.84	10	100	0	27.8	11-100	0	0	30	

The following samples were analyzed in this batch:

0410086-01B	0410086-02B	0410086-03B
0410086-04B		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23752 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-1011	Test Code: SW8260		Units: µg/L		Analysis Date: 10/11/04 11:59		
Client ID:		Run ID:	VOA1_041011A	SeqNo:	552872	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	44.57	5.0	50	0	89.1	71-126	0	
Surr: 4-Bromofluorobenzene	46.38	5.0	50	0	92.8	74-125	0	
Surr: Dibromofluoromethane	44.72	5.0	50	0	89.4	73-126	0	
Surr: Toluene-d8	44.16	5.0	50	0	88.3	75-125	0	

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CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23752 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1011	Test Code: SW8260		Units: µg/L		Analysis Date: 10/11/04 11:04			
Client ID:		Run ID:	VOA1_041011A	SeqNo:	552871	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	53.63	5.0	50	0	107	75.2-120	0	0	
1,1,2,2-Tetrachloroethane	49.81	5.0	50	0	99.6	72.4-121	0	0	
1,1,2-Trichloroethane	49.06	5.0	50	0	98.1	80-120	0	0	
1,1-Dichloroethane	48.77	5.0	50	0	97.5	76.9-120	0	0	
1,1-Dichloroethene	49.92	5.0	50	0	99.8	72.6-123	0	0	
1,2-Dichloroethane	51.1	5.0	50	0	102	80-120	0	0	
2-Butanone	94.81	10	100	0	94.8	69-131	0	0	
2-Chloroethyl vinyl ether	100.6	10	100	0	101	60-135	0	0	
2-Hexanone	103	10	100	0	103	55.6-126	0	0	
4-Methyl-2-pentanone	103	10	100	0	103	67.4-121	0	0	
Acetone	93.36	10	100	0	93.4	64.4-140	0	0	
Benzene	48.84	5.0	50	0	97.7	80-120	0	0	
Bromodichloromethane	52.77	5.0	50	0	106	80-120	0	0	
Bromoform	50.71	5.0	50	0	101	77.9-121	0	0	
Bromomethane	45.63	5.0	50	0	91.3	63.3-137	0	0	
Carbon disulfide	104.4	10	100	0	104	74.1-123	0	0	
Carbon tetrachloride	56.4	5.0	50	0	113	74.7-120	0	0	
Chlorobenzene	47.93	5.0	50	0	95.9	80-120	0	0	
Chloroethane	48.73	5.0	50	0	97.5	74.7-126	0	0	
Chloroform	50.31	5.0	50	0	101	80-120	0	0	
Chloromethane	47.93	5.0	50	0	95.9	64.5-132	0	0	
cis-1,3-Dichloropropene	52.36	5.0	50	0	105	80-120	0	0	
Dibromochloromethane	53.4	5.0	50	0	107	80-120	0	0	
Ethylbenzene	49.41	5.0	50	0	98.8	80-120	0	0	
m,p-Xylene	98.46	10	100	0	98.5	80-120	0	0	
Methylene chloride	46.95	10	50	0	93.9	76.2-120	0	0	
Styrene	50.3	5.0	50	0	101	80-120	0	0	
Tetrachloroethene	50.76	5.0	50	0	102	68.5-130	0	0	
Toluene	48.29	5.0	50	0	96.6	80-120	0	0	
trans-1,3-Dichloropropene	55.38	5.0	50	0	111	80-120	0	0	
Trichloroethene	49.72	5.0	50	0	99.4	78.9-120	0	0	
Vinyl acetate	114.7	10	100	0	115	62.4-133	0	0	
Vinyl chloride	49.31	2.0	50	0	98.6	72.7-128	0	0	
Xylenes, Total	148.5	15	150	0	99	80-120	0	0	
Surr: 1,2-Dichloroethane-d4	44.99	5.0	50	0	90	71-126	0	0	
Surr: 4-Bromofluorobenzene	46.54	5.0	50	0	93.1	74-125	0	0	
Surr: Dibromofluoromethane	46.07	5.0	50	0	92.1	73-126	0	0	
Surr: Toluene-d8	46.78	5.0	50	0	93.6	75-125	0	0	

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23752 InstrumentID: VOA1

MS	Sample ID: 0410086-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 10/11/04 14:43				
Client ID:	MW-18	Run ID:	VOA1_041011A	SeqNo:	552877	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	57.71	5.0	50	0	115	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	49.98	5.0	50	0	100	72.4-121	0	0		
1,1,2-Trichloroethane	48.81	5.0	50	0	97.6	80-120	0	0		
1,1-Dichloroethane	48.25	5.0	50	0	96.5	76.9-120	0	0		
1,1-Dichloroethene	50.51	5.0	50	0	101	72.6-123	0	0		
1,2-Dichloroethane	50.72	5.0	50	0	101	80-120	0	0		
2-Butanone	88.35	10	100	0	88.3	69-131	0	0		
2-Chloroethyl vinyl ether	ND	10	100	0	0	60-135	0	0		S
2-Hexanone	113.2	10	100	0	113	55.6-126	0	0		
4-Methyl-2-pentanone	111.5	10	100	0	112	67.4-121	0	0		
Acetone	75.53	10	100	0	75.5	64.4-140	0	0		
Benzene	49.39	5.0	50	0	98.8	80-120	0	0		
Bromodichloromethane	52.77	5.0	50	0	106	80-120	0	0		
Bromoform	51.73	5.0	50	0	103	77.9-121	0	0		
Bromomethane	34.49	5.0	50	0	69	63.3-137	0	0		
Carbon disulfide	104.8	10	100	0	105	74.1-123	0	0		
Carbon tetrachloride	55.75	5.0	50	0	111	74.7-120	0	0		
Chlorobenzene	48.64	5.0	50	0	97.3	80-120	0	0		
Chloroethane	51.97	5.0	50	0	104	74.7-126	0	0		
Chloroform	49.16	5.0	50	0	98.3	80-120	0	0		
Chloromethane	47.1	5.0	50	0	94.2	64.5-132	0	0		
cis-1,3-Dichloropropene	53.46	5.0	50	0	107	80-120	0	0		
Dibromochloromethane	53.35	5.0	50	0	107	80-120	0	0		
Ethylbenzene	49.42	5.0	50	0	98.8	80-120	0	0		
m,p-Xylene	99.41	10	100	0	99.4	80-120	0	0		
Methylene chloride	46.2	10	50	0	92.4	76.2-120	0	0		
Styrene	50.83	5.0	50	0	102	80-120	0	0		
Tetrachloroethene	50.78	5.0	50	0	102	68.5-130	0	0		
Toluene	49.67	5.0	50	0	99.3	80-120	0	0		
trans-1,3-Dichloropropene	56.32	5.0	50	0	113	80-120	0	0		
Trichloroethene	50.09	5.0	50	0	100	78.9-120	0	0		
Vinyl acetate	116.9	10	100	0	117	62.4-133	0	0		
Vinyl chloride	50.18	2.0	50	0	100	72.7-128	0	0		
Xylenes, Total	150	15	150	0	100	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	44.9	5.0	50	0	89.8	71-126	0	0		
Surr: 4-Bromofluorobenzene	48.34	5.0	50	0	96.7	74-125	0	0		
Surr: Dibromofluoromethane	44.83	5.0	50	0	89.7	73-126	0	0		
Surr: Toluene-d8	45.87	5.0	50	0	91.7	75-125	0	0		

ND - Not Detected at the Reporting Limit

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CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23711	InstrumentID: UV-2101PC								
MBLK	Sample ID: WBLKW1-100804	Test Code: E335.3				Units: mg/L		Analysis Date: 10/10/04 0:00	
Client ID:		Run ID:	UV-2101PC_041010A	SeqNo:	551995	Prep Date:		DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		ND	0.020						
LCS	Sample ID: WLCSW1-100804	Test Code: E335.3				Units: mg/L		Analysis Date: 10/10/04 0:00	
Client ID:		Run ID:	UV-2101PC_041010A	SeqNo:	551996	Prep Date:		DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		0.1961	0.020	0.2	0	98	80-120	0	
MS	Sample ID: 0410042-01DMS	Test Code: E335.3				Units: mg/L		Analysis Date: 10/10/04 0:00	
Client ID:		Run ID:	UV-2101PC_041010A	SeqNo:	552016	Prep Date:		DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		0.1886	0.020	0.2	0.002	93.3	75-125	0	
MSD	Sample ID: 0410042-01DMSD	Test Code: E335.3				Units: mg/L		Analysis Date: 10/10/04 0:00	
Client ID:		Run ID:	UV-2101PC_041010A	SeqNo:	552017	Prep Date:		DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		0.193	0.020	0.2	0.002	95.5	75-125	0.1886	2.31 25
DUP	Sample ID: 0410042-01DDUP	Test Code: E335.3				Units: mg/L		Analysis Date: 10/10/04 0:00	
Client ID:		Run ID:	UV-2101PC_041010A	SeqNo:	552015	Prep Date:		DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cyanide		ND	0.020	0	0	0	0-0	0.002	0 20

The following samples were analyzed in this batch:

0410086-01D	0410086-02D	0410086-03D
0410086-04D		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23712 InstrumentID: IC201

MBLK Sample ID: WBLKW1-100804 Test Code: E300 Units: mg/L Analysis Date: 10/08/04 12:45

Client ID: Run ID: IC201_041008A SeqNo: 552117 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Sulfate	ND	1.0								
Surr: Dichloroacetic acid (surr)	5.21	0.10	5	0	104	80-120	0			

LCS Sample ID: WLCSW1-100804 Test Code: E300 Units: mg/L Analysis Date: 10/08/04 13:13

Client ID: Run ID: IC201_041008A SeqNo: 552118 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.4	0.50	10	0	94	80-120	0			
Fluoride	2.03	0.10	2	0	101	80-120	0			
Nitrogen, Nitrate (As N)	2.05	0.10	2	0	102	80-120	0			
Nitrogen, Nitrite (As N)	2.05	0.10	2	0	102	80-120	0			
Sulfate	10.17	1.0	10	0	102	80-120	0			
Surr: Dichloroacetic acid (surr)	5.22	0.10	5	0	104	80-120	0			

LCSD Sample ID: WLCSDW1-10080 Test Code: E300 Units: mg/L Analysis Date: 10/08/04 13:42

Client ID: Run ID: IC201_041008A SeqNo: 552119 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.34	0.50	10	0	93.4	80-120	9.4	0.64	20	
Fluoride	1.99	0.10	2	0	99.5	80-120	2.03	1.99	20	
Nitrogen, Nitrate (As N)	2.04	0.10	2	0	102	80-120	2.05	0.489	20	
Nitrogen, Nitrite (As N)	2.04	0.10	2	0	102	80-120	2.05	0.489	20	
Sulfate	10.04	1.0	10	0	100	80-120	10.17	1.29	20	
Surr: Dichloroacetic acid (surr)	5.18	0.10	5	0	104	80-120	5.22	0.769	20	

MS Sample ID: 0410086-01EMS Test Code: E300 Units: mg/L Analysis Date: 10/08/04 14:39

Client ID: MW-18 Run ID: IC201_041008A SeqNo: 552121 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	250.2	0.50	10	242.4	77.7	75-125	0			EO
Fluoride	3.38	0.10	2	1.17	110	75-125	0			
Nitrogen, Nitrate (As N)	7.73	0.10	2	5.41	116	75-125	0			
Nitrogen, Nitrite (As N)	2.07	0.10	2	0	103	75-125	0			
Sulfate	1492	1.0	10	1514	-215	75-125	0			SEO
Surr: Dichloroacetic acid (surr)	5.34	0.10	5	0	107	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23712 InstrumentID: IC201

MSD Sample ID: 0410086-01EMSD		Test Code: E300			Units: mg/L		Analysis Date: 10/08/04 15:07			
Client ID:	MW-18	Run ID:	IC201_041008A	SeqNo:	552122	Prep Date:		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	249.7	0.50	10	242.4	72.2	75-125	250.2	0.22	20	SEO
Fluoride	3.27	0.10	2	1.17	105	75-125	3.38	3.31	20	
Nitrogen, Nitrate (As N)	7.61	0.10	2	5.41	110	75-125	7.73	1.56	20	
Nitrogen, Nitrite (As N)	1.97	0.10	2	0	98.5	75-125	2.07	4.95	20	
Sulfate	1492	1.0	10	1514	-221	75-125	1492	0.0355	20	SEO
Surr: Dichloroacetic acid (surr)	5.59	0.10	5	0	112	80-120	5.34	4.57	20	

DUP Sample ID: 0410086-01EDUP		Test Code: E300			Units: mg/L		Analysis Date: 10/08/04 14:10			
Client ID:	MW-18	Run ID:	IC201_041008A	SeqNo:	552120	Prep Date:		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	241.6	0.50	0	0	0	0-0	242.4	0.331	20	E
Fluoride	1.2	0.10	0	0	0	0-0	1.17	2.53	20	
Nitrogen, Nitrate (As N)	5.33	0.10	0	0	0	0-0	5.41	1.49	20	
Nitrogen, Nitrite (As N)	ND	0.10	0	0	0	0-0	0	0	20	
Sulfate	1509	1.0	0	0	0	0-0	1514	0.3	20	E
Surr: Dichloroacetic acid (surr)	5.75	0.10	5	0	115	80-120	5.92	2.91	20	

DUP Sample ID: 0410086-01EDUP		Test Code: E300			Units: mg/L		Analysis Date: 10/08/04 16:04			
Client ID:	MW-18	Run ID:	IC201_041008A	SeqNo:	552124	Prep Date:		DF:	5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	202.6	2.5	0	0	0	0-0	203.1	0.271	20	
Fluoride	0.8	0.50	0	0	0	0-0	0.8	0	20	
Nitrogen, Nitrate (As N)	4.7	0.50	0	0	0	0-0	4.7	0	20	
Nitrogen, Nitrite (As N)	ND	0.50	0	0	0	0-0	0	0	20	
Sulfate	1367	5.0	0	0	0	0-0	1369	0.139	20	E
Surr: Dichloroacetic acid (surr)	27.6	0.50	25	0	110	80-120	27.9	1.08	20	

The following samples were analyzed in this batch:

0410086-01E	0410086-02E	0410086-03E
0410086-04E		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23755 InstrumentID: IC201

MBLK Sample ID: WBLKW1-101104 Test Code: E300 Units: mg/L Analysis Date: 10/11/04 19:40

Client ID: Run ID: IC201_041011A SeqNo: 552952 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Nitrogen, Nitrite (As N)	ND	0.10								
Sulfate	ND	1.0								
Surr: Dichloroacetic acid (surr)	5.11	0.10	5	0	102	80-120	0			

LCS Sample ID: WLCSW1-101104 Test Code: E300 Units: mg/L Analysis Date: 10/11/04 20:08

Client ID: Run ID: IC201_041011A SeqNo: 552953 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.98	0.50	10	0	89.8	80-120	0			
Fluoride	1.95	0.10	2	0	97.5	80-120	0			
Nitrogen, Nitrate (As N)	1.92	0.10	2	0	96	80-120	0			
Nitrogen, Nitrite (As N)	1.96	0.10	2	0	98	80-120	0			
Sulfate	9.79	1.0	10	0	97.9	80-120	0			
Surr: Dichloroacetic acid (surr)	5.53	0.10	5	0	111	80-120	0			

LCSD Sample ID: WLCSDW1-10110 Test Code: E300 Units: mg/L Analysis Date: 10/11/04 20:37

Client ID: Run ID: IC201_041011A SeqNo: 552954 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9	0.50	10	0	90	80-120	8.98	0.222	20	
Fluoride	1.92	0.10	2	0	96	80-120	1.95	1.55	20	
Nitrogen, Nitrate (As N)	1.93	0.10	2	0	96.5	80-120	1.92	0.519	20	
Nitrogen, Nitrite (As N)	2.04	0.10	2	0	102	80-120	1.96	4	20	
Sulfate	9.79	1.0	10	0	97.9	80-120	9.79	0	20	
Surr: Dichloroacetic acid (surr)	5.72	0.10	5	0	114	80-120	5.53	3.38	20	

MS Sample ID: 0410086-01EMS Test Code: E300 Units: mg/L Analysis Date: 10/11/04 22:02

Client ID: MW-18 Run ID: IC201_041011A SeqNo: 552957 Prep Date: DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	648	25	500	166.5	96.3	75-125	0			
Fluoride	95	5.0	100	0	95	75-125	0			
Nitrogen, Nitrate (As N)	101	5.0	100	5	96	75-125	0			
Nitrogen, Nitrite (As N)	98	5.0	100	0	98	75-125	0			
Sulfate	1666	50	500	1116	110	75-125	0			
Surr: Dichloroacetic acid (surr)	269.5	5.0	250	0	108	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23755 InstrumentID: IC201

MSD	Sample ID: 0410086-01EMSD			Test Code: E300	Units: mg/L		Analysis Date: 10/11/04 22:31			
Client ID:	MW-18	Run ID: IC201_041011A		SeqNo:	552958	Prep Date:	DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	635	25	500	166.5	93.7	75-125	648	2.03	20	
Fluoride	92	5.0	100	0	92	75-125	95	3.21	20	
Nitrogen, Nitrate (As N)	98.5	5.0	100	5	93.5	75-125	101	2.51	20	
Nitrogen, Nitrite (As N)	95.5	5.0	100	0	95.5	75-125	98	2.58	20	
Sulfate	1642	50	500	1116	105	75-125	1666	1.45	20	
Surr: Dichloroacetic acid (surr)	272.5	5.0	250	0	109	80-120	269.5	1.11	20	

DUP	Sample ID: 0410086-01EDUP			Test Code: E300	Units: mg/L		Analysis Date: 10/11/04 21:34			
Client ID:	MW-18	Run ID: IC201_041011A		SeqNo:	552956	Prep Date:	DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	164.5	25	0	0	0	0-0	166.5	1.21	20	
Fluoride	ND	5.0	0	0	0	0-0	0	0	20	
Nitrogen, Nitrate (As N)	5	5.0	0	0	0	0-0	5	0	20	
Nitrogen, Nitrite (As N)	ND	5.0	0	0	0	0-0	0	0	20	
Sulfate	1102	50	0	0	0	0-0	1116	1.26	20	
Surr: Dichloroacetic acid (surr)	269	5.0	250	0	108	80-120	269	0	20	

DUP	Sample ID: 0409351-02CDUP			Test Code: E300	Units: mg/L		Analysis Date: 10/12/04 3:45			
Client ID:		Run ID:	IC201_041011A	SeqNo:	552969	Prep Date:	DF: 200			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2222	100	0	0	0	0-0	2230	0.359	20	
Fluoride	ND	20	0	0	0	0-0	0	0	20	
Nitrogen, Nitrate (As N)	ND	20	0	0	0	0-0	0	0	20	
Nitrogen, Nitrite (As N)	ND	20	0	0	0	0-0	0	0	20	
Sulfate	6312	200	0	0	0	0-0	6282	0.476	20	
Surr: Dichloroacetic acid (surr)	1132	20	1000	0	113	80-120	1092	3.6	20	

The following samples were analyzed in this batch:

0410086-01E	0410086-02E	0410086-03E
0410086-04E		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0410086
Project: Annual Sampling

QC BATCH REPORT

Batch ID: R23809 InstrumentID: WetChem

MBLK Sample ID: WBLKW1-101304 Test Code: E310.1 Units: mg/L Analysis Date: 10/13/04 0:00

Client ID: Run ID: WETCHEM_041013C SeqNo: 554176 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: WLCSW1-101304 Test Code: E310.1 Units: mg/L Analysis Date: 10/13/04 0:00

Client ID: Run ID: WETCHEM_041013C SeqNo: 554177 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	1	0	0-0	0	0		
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0	0		

DUP Sample ID: 0410086-01EDUP Test Code: E310.1 Units: mg/L Analysis Date: 10/13/04 0:00

Client ID: MW-18 Run ID: WETCHEM_041013C SeqNo: 554194 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	410.1	5.0	0	0	0	0-0	410.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	410.1	5.0	0	0	0	0-0	410.1	0	20	

The following samples were analyzed in this batch:

0410086-01E	0410086-02E	0410086-03E
0410086-04E		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page	/	of	/
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e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

e-Lab, Inc.

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information		Project Information			Parameter/Method Request for Analysis														
Purchase Order	Project Name	Annual Sampling		A	Annual														
Work Order	Project Number	B																	
Company Name	Bill To Company	C																	
Send Report To	Invoice Attn:	D																	
Address	Jeff Byrd	E																	
City/State/Zip	10450 Stancliff Rd.	F																	
Phone	281.530.5887	G																	
Fax	281.530.5656	H																	
e-Mail Address		I																	
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW 18	10/6/04	1000		8	X													
2	MW 45	10/6/04	1030		8	X													
3	MW 29	10/6/04	920		8	X													
4	RW 13	10/7/04	950		8	X													
5																			
6																			
7																			
8																			
9																			
10																			
Supplier(s) Please Print & Sign		Shipment Method:		Required Turnaround Time: Check Box		Results Due Date:													
<i>[Signature]</i>		FedEx		<input type="checkbox"/> Other <input type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour															
Relinquished by:		Date:	Time:	Received by:	Time:	Received by (Laboratory):	Date:	Time:	Chilled by (Laboratory):	Date:	Time:	e-Lab Cooler ID:	Cooler Temp:	QC Package:	Check Box Below				
<i>[Signature]</i>		10/7/04	16:15	<i>[Signature]</i>			10/3/04	16:30						<input type="checkbox"/> Standard QC	<input type="checkbox"/> Raw Data				
Logged by (Laboratory)		Date:	Time:											<input type="checkbox"/> TRRP LRC	<input type="checkbox"/> TRRP Level IV				
														<input type="checkbox"/> Level IV: SW846 Methods/CLP like	<input type="checkbox"/> Other:				
Preservative Key:		1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ SO ₄	6-NaHSO ₃	7-Other	8-4°C	Note: Any changes must be made in writing once samples									

e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 10/8/2004 9:30:00 AM

Work Order Number 0410086

Received by: RNG

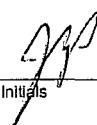
Checklist completed by


Signature

Date

10/8/04

Reviewed by


Initials

JP
10/11/04
Date

Matrix: Water

Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.3, 2.7c</u>	<u>003</u>	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

Adjusted? _____

Checked by 

Login Notes: Trip Blank was received however analysis was not requested.

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

NAVAJO REFINING COMPANY
501 E. MAIN STREET
ARTESIA NM 88210
5057483311

SHIP DATE: 07OCT2004
ACCOUNT #: 113684186
ACTUAL WGT: 52.00 LBS

NAVAJO REFINING COMPANY
501 E. MAIN STREET
ARTESIA NM 88210
5057483311

SHIP DATE: 07OCT2004
ACCOUNT #: 113684186
ACTUAL WGT: 52.00 LBS

Part # 156148-434 NHT-5-04

TO:

E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099

2815305656
BILL RECIPIENT

TO:
E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099

2815305656
BILL RECIPIENT



Deliv



FedEx STANDARD OVERNIGHT

System # 2223500 07OCT2004
TRK# 7907 9081 2423 Form 0201

FRI

DELIVER BY:
08OCT2004

IAH A2

FedEx STANDARD OVERNIGHT

FRI

System # 2223500 07OCT2004
TRK# 7902 9816 3764 Form 0201

DELIVER BY:
08OCT2004

IAH A2

77099-TX-US

A9 JGQA

77099-TX-US

A9 JGQA



OSUS v5 2000 2223500 2844 04/02

2844 04/02



e-Lab Analytical, Inc.

10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

July 13, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: Semi-Annual

Work Order : **0407007**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 13 samples on 7/1/2004 9:05:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 26.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Project: Semi-Annual
Work Order: 0407007

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0407007-01	MW-52	Water		6/29/2004 09:25	7/1/2004 09:05	<input type="checkbox"/>
0407007-02	MW-18	Water		6/29/2004 10:00	7/1/2004 09:05	<input type="checkbox"/>
0407007-03	KWB-13	Water		6/29/2004 10:40	7/1/2004 09:05	<input type="checkbox"/>
0407007-04	KWB-9	Water		6/29/2004 11:00	7/1/2004 09:05	<input type="checkbox"/>
0407007-05	KWB-3R	Water		6/29/2004 11:15	7/1/2004 09:05	<input type="checkbox"/>
0407007-06	NP-2	Water		6/29/2004 13:30	7/1/2004 09:05	<input type="checkbox"/>
0407007-07	NP-1	Water		6/29/2004 13:45	7/1/2004 09:05	<input type="checkbox"/>
0407007-08	KWB-7	Water		6/29/2004 14:00	7/1/2004 09:05	<input type="checkbox"/>
0407007-09	KWB-11A	Water		6/29/2004 14:20	7/1/2004 09:05	<input type="checkbox"/>
0407007-10	NP-9	Water		6/30/2004 08:30	7/1/2004 09:05	<input type="checkbox"/>
0407007-11	NP-10	Water		6/30/2004 08:45	7/1/2004 09:05	<input type="checkbox"/>
0407007-12	KWB-2R	Water		6/30/2004 09:30	7/1/2004 09:05	<input type="checkbox"/>
0407007-13	MW-59	Water		6/29/2004 15:30	7/1/2004 09:05	<input type="checkbox"/>

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-01

Client Sample ID: MW-52
Collection Date: 6/29/2004 9:25:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	ND	5.0		µg/L	1	7/7/2004 4:14:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/7/2004 4:14:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/7/2004 4:14:00 PM
Toluene	ND	5.0		µg/L	1	7/7/2004 4:14:00 PM
Xylenes, Total	ND	15		µg/L	1	7/7/2004 4:14:00 PM
Surr: 1,2-Dichloroethane-d4	117	71-126		%REC	1	7/7/2004 4:14:00 PM
Surr: 4-Bromofluorobenzene	88.6	74-125		%REC	1	7/7/2004 4:14:00 PM
Surr: Dibromofluoromethane	123	73-126		%REC	1	7/7/2004 4:14:00 PM
Surr: Toluene-d8	90.1	75-125		%REC	1	7/7/2004 4:14:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-02

Client Sample ID: MW-18
Collection Date: 6/29/2004 10:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
Benzene	ND	5.0		µg/L	1	7/7/2004 5:39:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/7/2004 5:39:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/7/2004 5:39:00 PM
Toluene	ND	5.0		µg/L	1	7/7/2004 5:39:00 PM
Xylenes, Total	ND	15		µg/L	1	7/7/2004 5:39:00 PM
Surr: 1,2-Dichloroethane-d4	108	71-126		%REC	1	7/7/2004 5:39:00 PM
Surr: 4-Bromofluorobenzene	89.9	74-125		%REC	1	7/7/2004 5:39:00 PM
Surr: Dibromofluoromethane	114	73-126		%REC	1	7/7/2004 5:39:00 PM
Surr: Toluene-d8	85.3	75-125		%REC	1	7/7/2004 5:39:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-03

Client Sample ID: KWB-13
Collection Date: 6/29/2004 10:40:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	ND	5.0		µg/L	1	7/8/2004 1:19:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/8/2004 1:19:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/8/2004 1:19:00 PM
Toluene	ND	5.0		µg/L	1	7/8/2004 1:19:00 PM
Xylenes, Total	ND	15		µg/L	1	7/8/2004 1:19:00 PM
Sur: 1,2-Dichloroethane-d4	120	71-126		%REC	1	7/8/2004 1:19:00 PM
Sur: 4-Bromofluorobenzene	96.1	74-125		%REC	1	7/8/2004 1:19:00 PM
Sur: Dibromofluoromethane	123	73-126		%REC	1	7/8/2004 1:19:00 PM
Sur: Toluene-d8	88.6	75-125		%REC	1	7/8/2004 1:19:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-04

Client Sample ID: KWB-9
Collection Date: 6/29/2004 11:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	ND	5.0		µg/L	1	7/7/2004 10:21:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/7/2004 10:21:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/7/2004 10:21:00 PM
Toluene	ND	5.0		µg/L	1	7/7/2004 10:21:00 PM
Xylenes, Total	ND	15		µg/L	1	7/7/2004 10:21:00 PM
Surrogate: 1,2-Dichloroethane-d4	115	71-126		%REC	1	7/7/2004 10:21:00 PM
Surrogate: 4-Bromofluorobenzene	87.8	74-125		%REC	1	7/7/2004 10:21:00 PM
Surrogate: Dibromofluoromethane	124	73-126		%REC	1	7/7/2004 10:21:00 PM
Surrogate: Toluene-d8	89.1	75-125		%REC	1	7/7/2004 10:21:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-05

Client Sample ID: KWB-3R
Collection Date: 6/29/2004 11:15:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	ND	5.0		µg/L	1	7/7/2004 6:05:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/7/2004 6:05:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/7/2004 6:05:00 PM
Toluene	ND	5.0		µg/L	1	7/7/2004 6:05:00 PM
Xylenes, Total	ND	15		µg/L	1	7/7/2004 6:05:00 PM
Surr: 1,2-Dichloroethane-d4	89.8	71-126		%REC	1	7/7/2004 6:05:00 PM
Surr: 4-Bromofluorobenzene	85.9	74-125		%REC	1	7/7/2004 6:05:00 PM
Surr: Dibromofluoromethane	91.5	73-126		%REC	1	7/7/2004 6:05:00 PM
Surr: Toluene-d8	90.0	75-125		%REC	1	7/7/2004 6:05:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analytic detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-06

Client Sample ID: NP-2
Collection Date: 6/29/2004 1:30:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	ND	5.0		µg/L	1	7/8/2004 3:39:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/8/2004 3:39:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/8/2004 3:39:00 PM
Toluene	ND	5.0		µg/L	1	7/8/2004 3:39:00 PM
Xylenes, Total	ND	15		µg/L	1	7/8/2004 3:39:00 PM
Surr: 1,2-Dichloroethane-d4	103	71-126		%REC	1	7/8/2004 3:39:00 PM
Surr: 4-Bromofluorobenzene	93.6	74-125		%REC	1	7/8/2004 3:39:00 PM
Surr: Dibromofluoromethane	111	73-126		%REC	1	7/8/2004 3:39:00 PM
Surr: Toluene-d8	91.9	75-125		%REC	1	7/8/2004 3:39:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-07

Client Sample ID: NP-1
Collection Date: 6/29/2004 1:45:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		
Benzene	ND	5.0		µg/L	1	7/8/2004 4:36:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/8/2004 4:36:00 PM
Methyl tert-butyl ether	100	5.0		µg/L	1	7/8/2004 4:36:00 PM
Toluene	ND	5.0		µg/L	1	7/8/2004 4:36:00 PM
Xylenes, Total	ND	15		µg/L	1	7/8/2004 4:36:00 PM
Surr: 1,2-Dichloroethane-d4	119	71-126		%REC	1	7/8/2004 4:36:00 PM
Surr: 4-Bromofluorobenzene	94.3	74-125		%REC	1	7/8/2004 4:36:00 PM
Surr: Dibromofluoromethane	126	73-126		%REC	1	7/8/2004 4:36:00 PM
Surr: Toluene-d8	86.7	75-125		%REC	1	7/8/2004 4:36:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-08

Client Sample ID: KWB-7
Collection Date: 6/29/2004 2:00:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
Benzene	ND	5.0		µg/L	1	7/8/2004 5:32:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/8/2004 5:32:00 PM
Methyl tert-butyl ether	35	5.0		µg/L	1	7/8/2004 5:32:00 PM
Toluene	ND	5.0		µg/L	1	7/8/2004 5:32:00 PM
Xylenes, Total	ND	15		µg/L	1	7/8/2004 5:32:00 PM
Surr: 1,2-Dichloroethane-d4	116	71-126		%REC	1	7/8/2004 5:32:00 PM
Surr: 4-Bromofluorobenzene	91.4	74-125		%REC	1	7/8/2004 5:32:00 PM
Surr: Dibromofluoromethane	121	73-126		%REC	1	7/8/2004 5:32:00 PM
Surr: Toluene-d8	89.3	75-125		%REC	1	7/8/2004 5:32:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-09

Client Sample ID: KWB-11A
Collection Date: 6/29/2004 2:20:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	ND	5.0		µg/L	1	7/8/2004 6:28:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/8/2004 6:28:00 PM
Methyl tert-butyl ether	14	5.0		µg/L	1	7/8/2004 6:28:00 PM
Toluene	ND	5.0		µg/L	1	7/8/2004 6:28:00 PM
Xylenes, Total	ND	15		µg/L	1	7/8/2004 6:28:00 PM
Surr: 1,2-Dichloroethane-d4	114	71-126		%REC	1	7/8/2004 6:28:00 PM
Surr: 4-Bromofluorobenzene	94.5	74-125		%REC	1	7/8/2004 6:28:00 PM
Surr: Dibromofluoromethane	121	73-126		%REC	1	7/8/2004 6:28:00 PM
Surr: Toluene-d8	89.3	75-125		%REC	1	7/8/2004 6:28:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-10

Client Sample ID: NP-9
Collection Date: 6/30/2004 8:30:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	ND	5.0		µg/L	1	7/8/2004 7:25:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/8/2004 7:25:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/8/2004 7:25:00 PM
Toluene	ND	5.0		µg/L	1	7/8/2004 7:25:00 PM
Xylenes, Total	ND	15		µg/L	1	7/8/2004 7:25:00 PM
Surr: 1,2-Dichloroethane-d4	109	71-126		%REC	1	7/8/2004 7:25:00 PM
Surr: 4-Bromofluorobenzene	88.9	74-125		%REC	1	7/8/2004 7:25:00 PM
Surr: Dibromofluoromethane	115	73-126		%REC	1	7/8/2004 7:25:00 PM
Surr: Toluene-d8	82.3	75-125		%REC	1	7/8/2004 7:25:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-11

Client Sample ID: NP-10
Collection Date: 6/30/2004 8:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	ND	5.0		µg/L	1	7/8/2004 8:21:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/8/2004 8:21:00 PM
Methyl tert-butyl ether	ND	5.0		µg/L	1	7/8/2004 8:21:00 PM
Toluene	ND	5.0		µg/L	1	7/8/2004 8:21:00 PM
Xylenes, Total	ND	15		µg/L	1	7/8/2004 8:21:00 PM
Surr: 1,2-Dichloroethane-d4	115	71-126		%REC	1	7/8/2004 8:21:00 PM
Surr: 4-Bromofluorobenzene	91.8	74-125		%REC	1	7/8/2004 8:21:00 PM
Surr: Dibromofluoromethane	123	73-126		%REC	1	7/8/2004 8:21:00 PM
Surr: Toluene-d8	88.1	75-125		%REC	1	7/8/2004 8:21:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 13, 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual
Lab ID: 0407007-12

Client Sample ID: KWB-2R
Collection Date: 6/30/2004 9:30:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
Benzene	1,500	120		µg/L	25	7/9/2004 2:04:00 PM
Ethylbenzene	2,400	120		µg/L	25	7/9/2004 2:04:00 PM
Methyl tert-butyl ether	410	120		µg/L	25	7/9/2004 2:04:00 PM
Toluene	48	5.0		µg/L	1	7/8/2004 9:17:00 PM
Xylenes, Total	ND	380		µg/L	25	7/9/2004 2:04:00 PM
Surr: 1,2-Dichloroethane-d4	77.4	71-126		%REC	25	7/9/2004 2:04:00 PM
Surr: 1,2-Dichloroethane-d4	123	71-126		%REC	1	7/8/2004 9:17:00 PM
Surr: 4-Bromofluorobenzene	89.7	74-125		%REC	25	7/9/2004 2:04:00 PM
Surr: 4-Bromofluorobenzene	101	74-125		%REC	1	7/8/2004 9:17:00 PM
Surr: Dibromofluoromethane	81.8	73-126		%REC	25	7/9/2004 2:04:00 PM
Surr: Dibromofluoromethane	123	73-126		%REC	1	7/8/2004 9:17:00 PM
Surr: Toluene-d8	87.9	75-125		%REC	25	7/9/2004 2:04:00 PM
Surr: Toluene-d8	96.7	75-125		%REC	1	7/8/2004 9:17:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Jul 13 2004

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual

QC BATCH REPORTBatch ID: **R21572** InstrumentID: **VOA2**

MBLK	Sample ID: VBLKW-0707			Test Code: SW8260	Units: µg/L		Analysis Date: 07/07/04 11:16		
Client ID:		Run ID: VOA2_040707A		SeqNo:	503886	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit

Benzene	ND	5.0							
Ethylbenzene	ND	5.0							
Methyl tert-butyl ether	ND	5.0							
Toluene	ND	5.0							
Xylenes, Total	ND	15							
Surr: 1,2-Dichloroethane-d4	48.05	5.0	50	0	96.1	71-126		0	
Surr: 4-Bromofluorobenzene	43	5.0	50	0	86	74-125		0	
Surr: Dibromofluoromethane	50.44	5.0	50	0	101	73-126		0	
Surr: Toluene-d8	44.86	5.0	50	0	89.7	75-125		0	

LCS	Sample ID: VLCSW-0707			Test Code: SW8260	Units: µg/L		Analysis Date: 07/07/04 10:26		
Client ID:		Run ID: VOA2_040707A		SeqNo:	503885	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit

Benzene	50.68	5.0	50	0	101	80-120		0	
Ethylbenzene	51.92	5.0	50	0	104	80-120		0	
Methyl tert-butyl ether	50.23	5.0	50	0	100	73.7-122		0	
Toluene	49.95	5.0	50	0	99.9	80-120		0	
Xylenes, Total	157	15	150	0	105	80-120		0	
Surr: 1,2-Dichloroethane-d4	44	5.0	50	0	88	71-126		0	
Surr: 4-Bromofluorobenzene	45.94	5.0	50	0	91.9	74-125		0	
Surr: Dibromofluoromethane	45.26	5.0	50	0	90.5	73-126		0	
Surr: Toluene-d8	46.99	5.0	50	0	94	75-125		0	

MS	Sample ID: 0406330-01AMS			Test Code: SW8260	Units: µg/L		Analysis Date: 07/07/04 14:15		
Client ID:		Run ID: VOA2_040707A		SeqNo:	504050	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit

Benzene	50.84	5.0	50	0	102	80-120		0	
Ethylbenzene	50.59	5.0	50	0	101	80-120		0	
Methyl tert-butyl ether	55.06	5.0	50	5.185	99.8	73.7-122		0	
Toluene	49.95	5.0	50	0	99.9	80-120		0	
Xylenes, Total	153.2	15	150	0	102	80-120		0	
Surr: 1,2-Dichloroethane-d4	43.58	5.0	50	0	87.2	71-126		0	
Surr: 4-Bromofluorobenzene	45.1	5.0	50	0	90.2	74-125		0	
Surr: Dibromofluoromethane	46.83	5.0	50	0	93.7	73-126		0	
Surr: Toluene-d8	45.68	5.0	50	0	91.4	75-125		0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual

QC BATCH REPORT

Batch ID: R21572 InstrumentID: VOA2

MSD	Sample ID: 0406330-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/07/04 15:32				
Client ID:	Run ID: VOA2_040707A	SeqNo:	504051	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.6	5.0	50	0	99.2	80-120	50.84	2.46	20	
Ethylbenzene	45.88	5.0	50	0	91.8	80-120	50.59	9.78	20	
Methyl tert-butyl ether	56.28	5.0	50	5.185	102	73.7-122	55.06	2.2	20	
Toluene	47.59	5.0	50	0	95.2	80-120	49.95	4.85	20	
Xylenes, Total	140	15	150	0	93.3	80-120	153.2	9	20	
Surr: 1,2-Dichloroethane-d4	42.71	5.0	50	0	85.4	71-126	43.58	2.02	20	
Surr: 4-Bromofluorobenzene	45.43	5.0	50	0	90.9	74-125	45.1	0.743	20	
Surr: Dibromofluoromethane	44.13	5.0	50	0	88.3	73-126	46.83	5.93	20	
Surr: Toluene-d8	45.73	5.0	50	0	91.5	75-125	45.68	0.121	20	

The following samples were analyzed in this batch:

0407007-05A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual

QC BATCH REPORT

Batch ID: R21581 InstrumentID: VOA1

MBLK Sample ID: VBLKW-0707		Test Code: SW8260		Units: µg/L		Analysis Date: 07/07/04 12:28		
Client ID: Run ID: VOA1_040707A		SeqNo: 504030		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Benzene	ND	5.0						
Ethylbenzene	ND	5.0						
Methyl tert-butyl ether	ND	5.0						
Toluene	ND	5.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	48.87	5.0	50	0	97.7	71-126	0	
Surr: 4-Bromofluorobenzene	45.26	5.0	50	0	90.5	74-125	0	
Surr: Dibromofluoromethane	51.39	5.0	50	0	103	73-126	0	
Surr: Toluene-d8	41.92	5.0	50	0	83.8	75-125	0	

LCS Sample ID: VLCSW-0707		Test Code: SW8260		Units: µg/L		Analysis Date: 07/07/04 12:00		
Client ID: Run ID: VOA1_040707A		SeqNo: 504029		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Benzene	47.67	5.0	50	0	95.3	80-120	0	
Ethylbenzene	50.63	5.0	50	0	101	80-120	0	
Methyl tert-butyl ether	46.41	5.0	50	0	92.8	73.7-122	0	
Toluene	49.72	5.0	50	0	99.4	80-120	0	
Xylenes, Total	164.4	15	150	0	110	80-120	0	
Surr: 1,2-Dichloroethane-d4	48.41	5.0	50	0	96.8	71-126	0	
Surr: 4-Bromofluorobenzene	52.33	5.0	50	0	105	74-125	0	
Surr: Dibromofluoromethane	48.31	5.0	50	0	96.6	73-126	0	
Surr: Toluene-d8	49.7	5.0	50	0	99.4	75-125	0	

MS Sample ID: 0406328-03AMS		Test Code: SW8260		Units: µg/L		Analysis Date: 07/07/04 14:21		
Client ID: Run ID: VOA1_040707A		SeqNo: 504032		Prep Date:		DF: 500		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Benzene	26910	2,500	25000	0	108	80-120	0	
Ethylbenzene	26830	2,500	25000	0	107	80-120	0	
Methyl tert-butyl ether	24590	2,500	25000	0	98.4	73.7-122	0	
Toluene	25980	2,500	25000	0	104	80-120	0	
Xylenes, Total	86160	7,500	75000	0	115	80-120	0	
Surr: 1,2-Dichloroethane-d4	26170	2,500	25000	0	105	71-126	0	
Surr: 4-Bromofluorobenzene	27190	2,500	25000	0	109	74-125	0	
Surr: Dibromofluoromethane	26100	2,500	25000	0	104	73-126	0	
Surr: Toluene-d8	24630	2,500	25000	0	98.5	75-125	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual

QC BATCH REPORT

Batch ID: **R21581** InstrumentID: **VOA1**

MSD	Sample ID: 0406328-03AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/07/04 14:49		
Client ID:	Run ID: VOA1_040707A	SeqNo:	504033	Prep Date:	DF: 500			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Benzene	26180	2,500	25000	0	105	80-120	26910	2.74 20
Ethylbenzene	25970	2,500	25000	0	104	80-120	26830	3.27 20
Methyl tert-butyl ether	27150	2,500	25000	0	109	73.7-122	24590	9.92 20
Toluene	25570	2,500	25000	0	102	80-120	25980	1.6 20
Xylenes, Total	83120	7,500	75000	0	111	80-120	86160	3.59 20
Surr: 1,2-Dichloroethane-d4	24590	2,500	25000	0	98.4	71-126	26170	6.23 20
Surr: 4-Bromofluorobenzene	25880	2,500	25000	0	104	74-125	27190	4.94 20
Surr: Dibromofluoromethane	24490	2,500	25000	0	98	73-126	26100	6.34 20
Surr: Toluene-d8	24270	2,500	25000	0	97.1	75-125	24630	1.48 20

The following samples were analyzed in this batch:

0407007-01A

0407007-02A

0407007-04A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual

QC BATCH REPORT

Batch ID: R21601 InstrumentID: VOA1

MBLK Sample ID: VBLKW-0708		Test Code: SW8260		Units: µg/L		Analysis Date: 07/08/04 12:23		
Client ID: Run ID: VOA1_040708A		SeqNo: 504777		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Benzene	ND	5.0						
Ethylbenzene	ND	5.0						
Methyl tert-butyl ether	ND	5.0						
Toluene	ND	5.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	54.57	5.0	50	0	109	71-126	0	
Surr: 4-Bromofluorobenzene	47.22	5.0	50	0	94.4	74-125	0	
Surr: Dibromofluoromethane	56.6	5.0	50	0	113	73-126	0	
Surr: Toluene-d8	43.29	5.0	50	0	86.6	75-125	0	

LCS Sample ID: VLCSW-0708		Test Code: SW8260		Units: µg/L		Analysis Date: 07/08/04 11:27		
Client ID: Run ID: VOA1_040708A		SeqNo: 504776		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Benzene	46.37	5.0	50	0	92.7	80-120	0	
Ethylbenzene	50.93	5.0	50	0	102	80-120	0	
Methyl tert-butyl ether	47.74	5.0	50	0	95.5	73.7-122	0	
Toluene	49.59	5.0	50	0	99.2	80-120	0	
Xylenes, Total	166.4	15	150	0	111	80-120	0	
Surr: 1,2-Dichloroethane-d4	45.92	5.0	50	0	91.8	71-126	0	
Surr: 4-Bromofluorobenzene	51.92	5.0	50	0	104	74-125	0	
Surr: Dibromofluoromethane	45.87	5.0	50	0	91.7	73-126	0	
Surr: Toluene-d8	48.35	5.0	50	0	96.7	75-125	0	

MS Sample ID: 0407007-06AMS		Test Code: SW8260		Units: µg/L		Analysis Date: 07/08/04 14:43		
Client ID: NP-2		Run ID: VOA1_040708A		SeqNo: 504901		Prep Date: DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Benzene	53.49	5.0	50	0	107	80-120	0	
Ethylbenzene	53.14	5.0	50	0	106	80-120	0	
Methyl tert-butyl ether	59.34	5.0	50	0	119	73.7-122	0	
Toluene	52.43	5.0	50	0	105	80-120	0	
Xylenes, Total	167.8	15	150	0	112	80-120	0	
Surr: 1,2-Dichloroethane-d4	51.67	5.0	50	0	103	71-126	0	
Surr: 4-Bromofluorobenzene	51.46	5.0	50	0	103	74-125	0	
Surr: Dibromofluoromethane	51.89	5.0	50	0	104	73-126	0	
Surr: Toluene-d8	48.69	5.0	50	0	97.4	75-125	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual

QC BATCH REPORT

Batch ID: R21601 InstrumentID: VOA1

MSD	Sample ID: 0407007-06AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/08/04 15:11				
Client ID:	NP-2	Run ID:	VOA1_040708A	SeqNo:	504902	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.81	5.0	50	0	102	80-120	53.49	5.14	20	
Ethylbenzene	50.31	5.0	50	0	101	80-120	53.14	5.46	20	
Methyl tert-butyl ether	54.19	5.0	50	0	108	73.7-122	59.34	9.09	20	
Toluene	50.02	5.0	50	0	100	80-120	52.43	4.71	20	
Xylenes, Total	158.1	15	150	0	105	80-120	167.8	5.95	20	
Surr: 1,2-Dichloroethane-d4	49.64	5.0	50	0	99.3	71-126	51.67	4.01	20	
Surr: 4-Bromofluorobenzene	52.44	5.0	50	0	105	74-125	51.46	1.89	20	
Surr: Dibromofluoromethane	51.72	5.0	50	0	103	73-126	51.89	0.33	20	
Surr: Toluene-d8	50.13	5.0	50	0	100	75-125	48.69	2.91	20	

The following samples were analyzed in this batch:

0407007-03A	0407007-06A	0407007-07A
0407007-08A	0407007-09A	0407007-10A
0407007-11A	0407007-12A	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual

QC BATCH REPORT

Batch ID: R21634 InstrumentID: VOA2

MBLK Sample ID: VBLKW-0708				Test Code: SW8260		Units: µg/L		Analysis Date: 07/09/04 11:56		
Client ID:		Run ID: VOA2_040709A		SeqNo: 505544		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	5.0								
Ethylbenzene	ND	5.0								
Methyl tert-butyl ether	ND	5.0								
Toluene	ND	5.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	44.26	5.0	50	0	88.5	71-126	0	0		
Surr: 4-Bromofluorobenzene	46.11	5.0	50	0	92.2	74-125	0	0		
Surr: Dibromofluoromethane	45.59	5.0	50	0	91.2	73-126	0	0		
Surr: Toluene-d8	46.31	5.0	50	0	92.6	75-125	0	0		

LCS Sample ID: VLCSW-0709				Test Code: SW8260		Units: µg/L		Analysis Date: 07/09/04 11:29		
Client ID:		Run ID: VOA2_040709A		SeqNo: 505543		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.07	5.0	50	0	94.1	80-120	0	0		
Ethylbenzene	48.74	5.0	50	0	97.5	80-120	0	0		
Methyl tert-butyl ether	45.73	5.0	50	0	91.5	73.7-122	0	0		
Toluene	47.84	5.0	50	0	95.7	80-120	0	0		
Xylenes, Total	148.6	15	150	0	99.1	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	41.42	5.0	50	0	82.8	71-126	0	0		
Surr: 4-Bromofluorobenzene	45.63	5.0	50	0	91.3	74-125	0	0		
Surr: Dibromofluoromethane	43.54	5.0	50	0	87.1	73-126	0	0		
Surr: Toluene-d8	45.2	5.0	50	0	90.4	75-125	0	0		

MS Sample ID: 0407076-06AMS				Test Code: SW8260		Units: µg/L		Analysis Date: 07/09/04 15:45		
Client ID:		Run ID: VOA2_040709A		SeqNo: 505553		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	43.35	5.0	50	0	86.7	80-120	0	0		
Ethylbenzene	45.1	5.0	50	0	90.2	80-120	0	0		
Methyl tert-butyl ether	47.96	5.0	50	0	95.9	73.7-122	0	0		
Toluene	43.8	5.0	50	0	87.6	80-120	0	0		
Xylenes, Total	136.4	15	150	0	90.9	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	40.8	5.0	50	0	81.6	71-126	0	0		
Surr: 4-Bromofluorobenzene	46.29	5.0	50	0	92.6	74-125	0	0		
Surr: Dibromofluoromethane	41.89	5.0	50	0	83.8	73-126	0	0		
Surr: Toluene-d8	44.3	5.0	50	0	88.6	75-125	0	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407007
Project: Semi-Annual

QC BATCH REPORT

Batch ID: R21634 InstrumentID: VOA2

MSD	Sample ID: 0407076-06AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/09/04 16:10				
Client ID:	Run ID: VOA2_040709A	SeqNo:	505554	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.79	5.0	50	0	89.6	80-120	43.35	3.27	20	
Ethylbenzene	46.84	5.0	50	0	93.7	80-120	45.1	3.79	20	
Methyl tert-butyl ether	48.88	5.0	50	0	97.8	73.7-122	47.96	1.88	20	
Toluene	45.26	5.0	50	0	90.5	80-120	43.8	3.29	20	
Xylenes, Total	139.1	15	150	0	92.7	80-120	136.4	1.95	20	
Surr: 1,2-Dichloroethane-d4	40.76	5.0	50	0	81.5	71-126	40.8	0.0965	20	
Surr: 4-Bromofluorobenzene	46.2	5.0	50	0	92.4	74-125	46.29	0.192	20	
Surr: Dibromofluoromethane	41.82	5.0	50	0	83.6	73-126	41.89	0.16	20	
Surr: Toluene-d8	44.58	5.0	50	0	89.2	75-125	44.3	0.62	20	

The following samples were analyzed in this batch:

0407007-12A

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

ATTACHMENT C

2004 NCL/TEL LABORATORY ANALYTICAL REPORTS



e-Lab Analytical, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

November 22, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0411050**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 9 samples on 11/5/2004 8:30:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 62.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.**Date:** November 22, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0411050

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
0411050-01	NCL-49	Water		11/4/2004 08:15	11/5/2004 08:30	<input type="checkbox"/>
0411050-02	NCL-32	Water		11/4/2004 08:45	11/5/2004 08:30	<input type="checkbox"/>
0411050-03	NCL-44	Water		11/4/2004 09:10	11/5/2004 08:30	<input type="checkbox"/>
0411050-04	NCL-33	Water		11/4/2004 10:00	11/5/2004 08:30	<input type="checkbox"/>
0411050-05	NCL-34	Water		11/4/2004 10:15	11/5/2004 08:30	<input type="checkbox"/>
0411050-06	MW-60	Water		11/4/2004 10:45	11/5/2004 08:30	<input type="checkbox"/>
0411050-07	MW-59	Water		11/4/2004 13:30	11/5/2004 08:30	<input type="checkbox"/>
0411050-08	TEL-4	Water		11/4/2004 14:00	11/5/2004 08:30	<input type="checkbox"/>
0411050-09	Trip Blank #187	Water		11/4/2004	11/5/2004 08:30	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0411050

Case Narrative

Batch 11045 Metals MS/MSD was an unrelated sample.

Batch R24456 Volatiles MS/MSD was an unrelated sample.

Batch R24521 Volatiles MS/MSD was an unrelated sample.

Batch R24587 Volatiles (sample TEL-4) MS/MSD recoveries were outside of control limits for several compounds. Recoveries were confirmed by the MS/MSD. Recoveries met the method criteria in the LCS.

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-01

Client Sample ID: NCL-49
Collection Date: 11/4/2004 8:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	11/11/2004 3:41:20 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/17/2004 5:14:00 PM
Arsenic	ND	0.0100		mg/L	2	11/17/2004 5:14:00 PM
Barium	0.0105	0.0100		mg/L	2	11/17/2004 5:14:00 PM
Beryllium	ND	0.00400		mg/L	2	11/17/2004 5:14:00 PM
Boron	0.528	0.200		mg/L	10	11/16/2004 12:49:00 AM
Cadmium	ND	0.00200		mg/L	2	11/17/2004 5:14:00 PM
Calcium	462	25.0		mg/L	50	11/15/2004 11:27:00 PM
Chromium	ND	0.00400		mg/L	2	11/17/2004 5:14:00 PM
Cobalt	ND	0.00400		mg/L	2	11/17/2004 5:14:00 PM
Copper	ND	0.00400		mg/L	2	11/17/2004 5:14:00 PM
Iron	1.61	0.400		mg/L	2	11/17/2004 5:14:00 PM
Lead	ND	0.0100		mg/L	2	11/17/2004 5:14:00 PM
Magnesium	268	10.0		mg/L	50	11/15/2004 11:27:00 PM
Manganese	0.480	0.0500		mg/L	10	11/16/2004 12:49:00 AM
Molybdenum	0.0282	0.0100		mg/L	2	11/17/2004 5:14:00 PM
Nickel	0.0124	0.0100		mg/L	2	11/17/2004 5:14:00 PM
Potassium	0.757	0.400		mg/L	2	11/17/2004 5:14:00 PM
Selenium	ND	0.0100		mg/L	2	11/17/2004 5:14:00 PM
Silver	ND	0.0100		mg/L	2	11/17/2004 5:14:00 PM
Sodium	200	2.00		mg/L	10	11/16/2004 12:49:00 AM
Vanadium	0.0140	0.0100		mg/L	2	11/17/2004 5:14:00 PM
Zinc	ND	0.0100		mg/L	2	11/17/2004 5:14:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/12/2004 5:54:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/12/2004 5:54:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
2-Methylphenol	ND	10		µg/L	1	11/12/2004 5:54:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/12/2004 5:54:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/12/2004 5:54:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/12/2004 5:54:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/12/2004 5:54:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/12/2004 5:54:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Acenaphthene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Acenaphthylene	ND	10		µg/L	1	11/12/2004 5:54:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-01

Client Sample ID: NCL-49
Collection Date: 11/4/2004 8:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Anthracene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Benzidine	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Hexachloroethane	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Isophorone	ND	10		µg/L	1	11/12/2004 5:54:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/12/2004 5:54:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/12/2004 5:54:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Naphthalene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Nitrobenzene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Phenanthrene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Phenol	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Pyrene	ND	10		µg/L	1	11/12/2004 5:54:00 PM
Surr: 2,4,6-Tribromophenol	87.4	39-153		%REC	1	11/12/2004 5:54:00 PM
Surr: 2-Fluorobiphenyl	78.2	40-147		%REC	1	11/12/2004 5:54:00 PM
Surr: 2-Fluorophenol	35.2	21-110		%REC	1	11/12/2004 5:54:00 PM
Surr: 4-Terphenyl-d14	88.3	39-141		%REC	1	11/12/2004 5:54:00 PM
Surr: Nitrobenzene-d5	73.7	37-140		%REC	1	11/12/2004 5:54:00 PM
Surr: Phenol-d6	19.6	11-100		%REC	1	11/12/2004 5:54:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	11/9/2004 8:37:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	11/9/2004 8:37:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	11/9/2004 8:37:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	11/9/2004 8:37:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	11/9/2004 8:37:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	11/9/2004 8:37:00 PM
2-Butanone	ND	10	µg/L	11/9/2004 8:37:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	11/9/2004 8:37:00 PM
2-Hexanone	ND	10	µg/L	11/9/2004 8:37:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	11/9/2004 8:37:00 PM
Acetone	ND	10	µg/L	11/9/2004 8:37:00 PM
Benzene	ND	5.0	µg/L	11/9/2004 8:37:00 PM
Bromodichloromethane	ND	5.0	µg/L	11/9/2004 8:37:00 PM
Bromoform	ND	5.0	µg/L	11/9/2004 8:37:00 PM
Bromomethane	ND	5.0	µg/L	11/9/2004 8:37:00 PM
Carbon disulfide	ND	10	µg/L	11/9/2004 8:37:00 PM
Carbon tetrachloride	ND	5.0	µg/L	11/9/2004 8:37:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-01

Client Sample ID: NCL-49
Collection Date: 11/4/2004 8:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Chloroethane	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Chloroform	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Chloromethane	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Ethylbenzene	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
m,p-Xylene	ND	10		µg/L	1	11/9/2004 8:37:00 PM
Methylene chloride	ND	10		µg/L	1	11/9/2004 8:37:00 PM
Styrene	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Toluene	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/9/2004 8:37:00 PM
Vinyl acetate	ND	10		µg/L	1	11/9/2004 8:37:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/9/2004 8:37:00 PM
Xylenes, Total	ND	15		µg/L	1	11/9/2004 8:37:00 PM
Surr: 1,2-Dichloroethane-d4	100	71-126		%REC	1	11/9/2004 8:37:00 PM
Surr: 4-Bromofluorobenzene	97.1	74-125		%REC	1	11/9/2004 8:37:00 PM
Surr: Dibromofluoromethane	99.9	73-126		%REC	1	11/9/2004 8:37:00 PM
Surr: Toluene-d8	102	75-125		%REC	1	11/9/2004 8:37:00 PM
ANIONS BY ION CHROMATOGRAPHY						Analyst: MG
Chloride	270	5.00		mg/L	10	11/17/2004 8:53:00 PM
Fluoride	0.980	0.100		mg/L	1	11/17/2004 8:24:00 PM
Sulfate	1,940	100		mg/L	100	11/17/2004 9:21:00 PM
Surr: Dichloroacetic acid (surr)	97.4	80-120		%REC	1	11/17/2004 8:24:00 PM
Surr: Dichloroacetic acid (surr)	107	80-120		%REC	10	11/17/2004 8:53:00 PM
Surr: Dichloroacetic acid (surr)	109	80-120		%REC	100	11/17/2004 9:21:00 PM
ALKALINITY						Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	358	5.00		mg/L	1	11/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Total (As CaCO ₃)	358	5.00		mg/L	1	11/14/2004
CYANIDE, TOTAL						Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/12/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-02

Client Sample ID: NCL-32
Collection Date: 11/4/2004 8:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	11/11/2004 3:42:53 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.209	0.100		mg/L	10	11/16/2004 12:55:00 AM
Arsenic	ND	0.0100		mg/L	2	11/17/2004 5:19:00 PM
Barium	0.0305	0.0100		mg/L	2	11/17/2004 5:19:00 PM
Beryllium	ND	0.00400		mg/L	2	11/17/2004 5:19:00 PM
Boron	0.222	0.200		mg/L	10	11/16/2004 12:55:00 AM
Cadmium	ND	0.00200		mg/L	2	11/17/2004 5:19:00 PM
Calcium	433	25.0		mg/L	50	11/15/2004 11:33:00 PM
Chromium	ND	0.00400		mg/L	2	11/17/2004 5:19:00 PM
Cobalt	0.00475	0.00400		mg/L	2	11/17/2004 5:19:00 PM
Copper	ND	0.00400		mg/L	2	11/17/2004 5:19:00 PM
Iron	1.86	0.400		mg/L	2	11/17/2004 5:19:00 PM
Lead	ND	0.0100		mg/L	2	11/17/2004 5:19:00 PM
Magnesium	131	2.00		mg/L	10	11/16/2004 12:55:00 AM
Manganese	0.645	0.0500		mg/L	10	11/16/2004 12:55:00 AM
Molybdenum	ND	0.0100		mg/L	2	11/17/2004 5:19:00 PM
Nickel	ND	0.0100		mg/L	2	11/17/2004 5:19:00 PM
Potassium	3.12	0.400		mg/L	2	11/17/2004 5:19:00 PM
Selenium	ND	0.0100		mg/L	2	11/17/2004 5:19:00 PM
Silver	ND	0.0100		mg/L	2	11/17/2004 5:19:00 PM
Sodium	58.4	2.00		mg/L	10	11/16/2004 12:55:00 AM
Vanadium	ND	0.0100		mg/L	2	11/17/2004 5:19:00 PM
Zinc	0.0243	0.0100		mg/L	2	11/17/2004 5:19:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/12/2004 6:18:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/12/2004 6:18:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
2-Methylphenol	ND	10		µg/L	1	11/12/2004 6:18:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/12/2004 6:18:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/12/2004 6:18:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/12/2004 6:18:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/12/2004 6:18:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/12/2004 6:18:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Acenaphthene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Acenaphthylene	ND	10		µg/L	1	11/12/2004 6:18:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-02

Client Sample ID: NCL-32
Collection Date: 11/4/2004 8:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Anthracene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Benzidine	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Hexachloroethane	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Isophorone	ND	10		µg/L	1	11/12/2004 6:18:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/12/2004 6:18:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/12/2004 6:18:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Naphthalene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Nitrobenzene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Phenanthrene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Phenol	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Pyrene	ND	10		µg/L	1	11/12/2004 6:18:00 PM
Surr: 2,4,6-Tribromophenol	86.7	39-153		%REC	1	11/12/2004 6:18:00 PM
Surr: 2-Fluorobiphenyl	80.4	40-147		%REC	1	11/12/2004 6:18:00 PM
Surr: 2-Fluorophenol	33.1	21-110		%REC	1	11/12/2004 6:18:00 PM
Surr: 4-Terphenyl-d14	87.5	39-141		%REC	1	11/12/2004 6:18:00 PM
Surr: Nitrobenzene-d5	74.5	37-140		%REC	1	11/12/2004 6:18:00 PM
Surr: Phenol-d6	18.4	11-100		%REC	1	11/12/2004 6:18:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	ND	5.0	µg/L	1
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-02

Client Sample ID: NCL-32
Collection Date: 11/4/2004 8:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Chloroethane	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Chloroform	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Chloromethane	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Ethylbenzene	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
m,p-Xylene	ND	10		µg/L	1	11/9/2004 9:04:00 PM
Methylene chloride	ND	10		µg/L	1	11/9/2004 9:04:00 PM
Styrene	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Toluene	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/9/2004 9:04:00 PM
Vinyl acetate	ND	10		µg/L	1	11/9/2004 9:04:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/9/2004 9:04:00 PM
Xylenes, Total	ND	15		µg/L	1	11/9/2004 9:04:00 PM
Surr: 1,2-Dichloroethane-d4	97.0	71-126		%REC	1	11/9/2004 9:04:00 PM
Surr: 4-Bromofluorobenzene	97.1	74-125		%REC	1	11/9/2004 9:04:00 PM
Surr: Dibromofluoromethane	99.6	73-126		%REC	1	11/9/2004 9:04:00 PM
Surr: Toluene-d8	96.8	75-125		%REC	1	11/9/2004 9:04:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	166	5.00		mg/L	10	11/18/2004 8:38:00 PM
Fluoride	1.66	0.100		mg/L	1	11/18/2004 8:10:00 PM
Sulfate	1,180	100		mg/L	100	11/18/2004 9:07:00 PM
Surr: Dichloroacetic acid (surr)	109	80-120		%REC	1	11/18/2004 8:10:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	10	11/18/2004 8:38:00 PM
Surr: Dichloroacetic acid (surr)	114	80-120		%REC	100	11/18/2004 9:07:00 PM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	304	5.00		mg/L	1	11/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Total (As CaCO ₃)	304	5.00		mg/L	1	11/14/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/12/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-03

Client Sample ID: NCL-44
Collection Date: 11/4/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	11/11/2004 3:44:26 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/17/2004 5:24:00 PM
Arsenic	0.0242	0.0100		mg/L	2	11/17/2004 5:24:00 PM
Barium	0.0290	0.0100		mg/L	2	11/17/2004 5:24:00 PM
Beryllium	ND	0.00400		mg/L	2	11/17/2004 5:24:00 PM
Boron	0.288	0.200		mg/L	10	11/16/2004 1:01:00 AM
Cadmium	ND	0.00200		mg/L	2	11/17/2004 5:24:00 PM
Calcium	310	25.0		mg/L	50	11/15/2004 11:39:00 PM
Chromium	ND	0.00400		mg/L	2	11/17/2004 5:24:00 PM
Cobalt	0.00402	0.00400		mg/L	2	11/17/2004 5:24:00 PM
Copper	ND	0.00400		mg/L	2	11/17/2004 5:24:00 PM
Iron	1.97	0.400		mg/L	2	11/17/2004 5:24:00 PM
Lead	ND	0.0100		mg/L	2	11/17/2004 5:24:00 PM
Magnesium	130	2.00		mg/L	10	11/16/2004 1:01:00 AM
Manganese	0.743	0.0500		mg/L	10	11/16/2004 1:01:00 AM
Molybdenum	0.0126	0.0100		mg/L	2	11/17/2004 5:24:00 PM
Nickel	ND	0.0100		mg/L	2	11/17/2004 5:24:00 PM
Potassium	2.12	0.400		mg/L	2	11/17/2004 5:24:00 PM
Selenium	ND	0.0100		mg/L	2	11/17/2004 5:24:00 PM
Silver	ND	0.0100		mg/L	2	11/17/2004 5:24:00 PM
Sodium	76.4	2.00		mg/L	10	11/16/2004 1:01:00 AM
Vanadium	ND	0.0100		mg/L	2	11/17/2004 5:24:00 PM
Zinc	ND	0.0100		mg/L	2	11/17/2004 5:24:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/17/2004 3:19:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/17/2004 3:19:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
2-Methylphenol	ND	10		µg/L	1	11/17/2004 3:19:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/17/2004 3:19:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/17/2004 3:19:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/17/2004 3:19:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/17/2004 3:19:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/17/2004 3:19:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Acenaphthene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Acenaphthylene	ND	10		µg/L	1	11/17/2004 3:19:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-03

Client Sample ID: NCL-44
Collection Date: 11/4/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Anthracene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Benzidine	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Hexachloroethane	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Isophorone	ND	10		µg/L	1	11/17/2004 3:19:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/17/2004 3:19:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/17/2004 3:19:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Naphthalene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Nitrobenzene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Phenanthrene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Phenol	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Pyrene	ND	10		µg/L	1	11/17/2004 3:19:00 PM
Surr: 2,4,6-Tribromophenol	94.1	39-153		%REC	1	11/17/2004 3:19:00 PM
Surr: 2-Fluorobiphenyl	89.1	40-147		%REC	1	11/17/2004 3:19:00 PM
Surr: 2-Fluorophenol	41.3	21-110		%REC	1	11/17/2004 3:19:00 PM
Surr: 4-Terphenyl-d14	90.9	39-141		%REC	1	11/17/2004 3:19:00 PM
Surr: Nitrobenzene-d5	90.7	37-140		%REC	1	11/17/2004 3:19:00 PM
Surr: Phenol-d6	25.1	11-100		%REC	1	11/17/2004 3:19:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
2-Butanone	ND	10		µg/L	1	11/9/2004 9:31:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	11/9/2004 9:31:00 PM
2-Hexanone	ND	10		µg/L	1	11/9/2004 9:31:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/9/2004 9:31:00 PM
Acetone	ND	10		µg/L	1	11/9/2004 9:31:00 PM
Benzene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Bromoform	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Bromomethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Carbon disulfide	ND	10		µg/L	1	11/9/2004 9:31:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.
Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-03

Client Sample ID: NCL-44
Collection Date: 11/4/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Chloroethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Chloroform	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Chloromethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Ethylbenzene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
m,p-Xylene	ND	10		µg/L	1	11/9/2004 9:31:00 PM
Methylene chloride	ND	10		µg/L	1	11/9/2004 9:31:00 PM
Styrene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Toluene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/9/2004 9:31:00 PM
Vinyl acetate	ND	10		µg/L	1	11/9/2004 9:31:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/9/2004 9:31:00 PM
Xylenes, Total	ND	15		µg/L	1	11/9/2004 9:31:00 PM
Surr: 1,2-Dichloroethane-d4	102	71-126		%REC	1	11/9/2004 9:31:00 PM
Surr: 4-Bromofluorobenzene	95.6	74-125		%REC	1	11/9/2004 9:31:00 PM
Surr: Dibromofluoromethane	101	73-126		%REC	1	11/9/2004 9:31:00 PM
Surr: Toluene-d8	100	75-125		%REC	1	11/9/2004 9:31:00 PM
ANIONS BY ION CHROMATOGRAPHY						Analyst: MG
Chloride	296	5.00		mg/L	10	11/18/2004 10:04:00 PM
Fluoride	1.34	0.100		mg/L	1	11/18/2004 9:35:00 PM
Sulfate	495	20.0		mg/L	20	11/19/2004 2:13:00 PM
Surr: Dichloroacetic acid (surr)	99.0	80-120		%REC	1	11/18/2004 9:35:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	10	11/18/2004 10:04:00 PM
Surr: Dichloroacetic acid (surr)	109	80-120		%REC	20	11/19/2004 2:13:00 PM
ALKALINITY						Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	539	5.00		mg/L	1	11/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Total (As CaCO ₃)	539	5.00		mg/L	1	11/14/2004
CYANIDE, TOTAL						Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/12/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-04

Client Sample ID: NCL-33
Collection Date: 11/4/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	11/11/2004 3:46:00 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/17/2004 5:29:00 PM
Arsenic	ND	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Barium	0.0363	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Beryllium	ND	0.00400		mg/L	2	11/17/2004 5:29:00 PM
Boron	0.555	0.200		mg/L	10	11/16/2004 1:06:00 AM
Cadmium	ND	0.00200		mg/L	2	11/17/2004 5:29:00 PM
Calcium	346	25.0		mg/L	50	11/15/2004 11:45:00 PM
Chromium	ND	0.00400		mg/L	2	11/17/2004 5:29:00 PM
Cobalt	ND	0.00400		mg/L	2	11/17/2004 5:29:00 PM
Copper	ND	0.00400		mg/L	2	11/17/2004 5:29:00 PM
Iron	2.15	0.400		mg/L	2	11/17/2004 5:29:00 PM
Lead	ND	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Magnesium	113	2.00		mg/L	10	11/16/2004 1:06:00 AM
Manganese	0.0719	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Molybdenum	ND	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Nickel	ND	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Potassium	3.00	0.400		mg/L	2	11/17/2004 5:29:00 PM
Selenium	ND	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Silver	ND	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Sodium	91.5	2.00		mg/L	10	11/16/2004 1:06:00 AM
Vanadium	ND	0.0100		mg/L	2	11/17/2004 5:29:00 PM
Zinc	ND	0.0100		mg/L	2	11/17/2004 5:29:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	11/17/2004 3:46:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	11/17/2004 3:46:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
2-Methylphenol	ND	11		µg/L	1	11/17/2004 3:46:00 PM
2-Nitroaniline	ND	11		µg/L	1	11/17/2004 3:46:00 PM
2-Nitrophenol	ND	11		µg/L	1	11/17/2004 3:46:00 PM
3&4-Methylphenol	ND	11		µg/L	1	11/17/2004 3:46:00 PM
3-Nitroaniline	ND	11		µg/L	1	11/17/2004 3:46:00 PM
4-Nitroaniline	ND	11		µg/L	1	11/17/2004 3:46:00 PM
4-Nitrophenol	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Acenaphthene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Acenaphthylene	ND	11		µg/L	1	11/17/2004 3:46:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-04

Client Sample ID: NCL-33
Collection Date: 11/4/2004 10:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Anthracene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Benz(a)anthracene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Benzidine	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Hexachloroethane	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Isophorone	ND	11		µg/L	1	11/17/2004 3:46:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	11/17/2004 3:46:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	11/17/2004 3:46:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Naphthalene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Nitrobenzene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Pentachlorophenol	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Phenanthrene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Phenol	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Pyrene	ND	11		µg/L	1	11/17/2004 3:46:00 PM
Surr: 2,4,6-Tribromophenol	90.9	39-153		%REC	1	11/17/2004 3:46:00 PM
Surr: 2-Fluorobiphenyl	81.3	40-147		%REC	1	11/17/2004 3:46:00 PM
Surr: 2-Fluorophenol	38.9	21-110		%REC	1	11/17/2004 3:46:00 PM
Surr: 4-Terphenyl-d14	84.5	39-141		%REC	1	11/17/2004 3:46:00 PM
Surr: Nitrobenzene-d5	82.8	37-140		%REC	1	11/17/2004 3:46:00 PM
Surr: Phenol-d6	24.3	11-100		%REC	1	11/17/2004 3:46:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
2-Butanone	ND	10		µg/L	1	11/9/2004 9:59:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	11/9/2004 9:59:00 PM
2-Hexanone	ND	10		µg/L	1	11/9/2004 9:59:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/9/2004 9:59:00 PM
Acetone	ND	10		µg/L	1	11/9/2004 9:59:00 PM
Benzene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Bromoform	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Bromomethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Carbon disulfide	ND	10		µg/L	1	11/9/2004 9:59:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-04

Client Sample ID: NCL-33
Collection Date: 11/4/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Chloroethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Chloroform	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Chloromethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Ethylbenzene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
m,p-Xylene	ND	10		µg/L	1	11/9/2004 9:59:00 PM
Methylene chloride	ND	10		µg/L	1	11/9/2004 9:59:00 PM
Styrene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Toluene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/9/2004 9:59:00 PM
Vinyl acetate	ND	10		µg/L	1	11/9/2004 9:59:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/9/2004 9:59:00 PM
Xylenes, Total	ND	15		µg/L	1	11/9/2004 9:59:00 PM
Surr: 1,2-Dichloroethane-d4	95.4	71-126		%REC	1	11/9/2004 9:59:00 PM
Surr: 4-Bromofluorobenzene	100	74-125		%REC	1	11/9/2004 9:59:00 PM
Surr: Dibromofluoromethane	97.0	73-126		%REC	1	11/9/2004 9:59:00 PM
Surr: Toluene-d8	97.3	75-125		%REC	1	11/9/2004 9:59:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	302	5.00	mg/L	10
Fluoride	1.97	0.100	mg/L	1
Sulfate	462	20.0	mg/L	20
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	99.6	80-120	%REC	20

ALKALINITY

	E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	623	5.00	mg/L
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L
Alkalinity, Total (As CaCO ₃)	623	5.00	mg/L

CYANIDE, TOTAL

	E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-05

Client Sample ID: NCL-34
Collection Date: 11/4/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
Mercury	ND	0.000200		mg/L	1	11/11/2004 3:47:34 PM
ICP METALS, TOTAL						
Aluminum	ND	0.0200		mg/L	2	11/18/2004 2:23:00 PM
Arsenic	ND	0.0100		mg/L	2	11/18/2004 2:23:00 PM
Barium	0.737	0.0500		mg/L	10	11/16/2004 1:12:00 AM
Beryllium	ND	0.00400		mg/L	2	11/18/2004 2:23:00 PM
Boron	0.293	0.200		mg/L	10	11/16/2004 1:12:00 AM
Cadmium	ND	0.00200		mg/L	2	11/18/2004 2:23:00 PM
Calcium	263	25.0		mg/L	50	11/15/2004 11:51:00 PM
Chromium	ND	0.00400		mg/L	2	11/18/2004 2:23:00 PM
Cobalt	ND	0.00400		mg/L	2	11/18/2004 2:23:00 PM
Copper	ND	0.00400		mg/L	2	11/18/2004 2:23:00 PM
Iron	1.32	0.400		mg/L	2	11/18/2004 5:48:00 PM
Lead	ND	0.0100		mg/L	2	11/18/2004 2:23:00 PM
Magnesium	97.6	2.00		mg/L	10	11/16/2004 1:12:00 AM
Manganese	0.107	0.0500		mg/L	10	11/16/2004 1:12:00 AM
Molybdenum	ND	0.0100		mg/L	2	11/18/2004 2:23:00 PM
Nickel	ND	0.0100		mg/L	2	11/18/2004 2:23:00 PM
Potassium	1.23	0.400		mg/L	2	11/18/2004 2:23:00 PM
Selenium	ND	0.0100		mg/L	2	11/18/2004 2:23:00 PM
Silver	ND	0.0100		mg/L	2	11/18/2004 2:23:00 PM
Sodium	149	2.00		mg/L	10	11/16/2004 1:12:00 AM
Vanadium	ND	0.0100		mg/L	2	11/18/2004 2:23:00 PM
Zinc	ND	0.0100		mg/L	2	11/18/2004 2:23:00 PM
SEMOVOLATILE ORGANICS BY GC/MS						
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/17/2004 4:13:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/17/2004 4:13:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
2-Methylphenol	ND	10		µg/L	1	11/17/2004 4:13:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/17/2004 4:13:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/17/2004 4:13:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/17/2004 4:13:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/17/2004 4:13:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/17/2004 4:13:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Acenaphthene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Acenaphthylene	ND	10		µg/L	1	11/17/2004 4:13:00 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-05

Client Sample ID: NCL-34
Collection Date: 11/4/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Anthracene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Benzidine	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Hexachloroethane	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Isophorone	ND	10		µg/L	1	11/17/2004 4:13:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/17/2004 4:13:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/17/2004 4:13:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Naphthalene	15	10		µg/L	1	11/17/2004 4:13:00 PM
Nitrobenzene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Phenanthrene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Phenol	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Pyrene	ND	10		µg/L	1	11/17/2004 4:13:00 PM
Surr: 2,4,6-Tribromophenol	99.9	39-153		%REC	1	11/17/2004 4:13:00 PM
Surr: 2-Fluorobiphenyl	80.9	40-147		%REC	1	11/17/2004 4:13:00 PM
Surr: 2-Fluorophenol	38.3	21-110		%REC	1	11/17/2004 4:13:00 PM
Surr: 4-Terphenyl-d14	83.0	39-141		%REC	1	11/17/2004 4:13:00 PM
Surr: Nitrobenzene-d5	84.8	37-140		%REC	1	11/17/2004 4:13:00 PM
Surr: Phenol-d6	23.9	11-100		%REC	1	11/17/2004 4:13:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	11/11/2004 1:35:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	11/11/2004 1:35:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	11/11/2004 1:35:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	11/11/2004 1:35:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	11/11/2004 1:35:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	11/11/2004 1:35:00 PM
2-Butanone	ND	10	µg/L	11/11/2004 1:35:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	11/11/2004 1:35:00 PM
2-Hexanone	ND	10	µg/L	11/11/2004 1:35:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	11/11/2004 1:35:00 PM
Acetone	ND	10	µg/L	11/11/2004 1:35:00 PM
Benzene	2,300	120	µg/L	11/11/2004 7:03:00 PM
Bromodichloromethane	ND	5.0	µg/L	11/11/2004 1:35:00 PM
Bromoform	ND	5.0	µg/L	11/11/2004 1:35:00 PM
Bromomethane	ND	5.0	µg/L	11/11/2004 1:35:00 PM
Carbon disulfide	ND	10	µg/L	11/11/2004 1:35:00 PM
Carbon tetrachloride	ND	5.0	µg/L	11/11/2004 1:35:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analytic detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-05

Client Sample ID: NCL-34
Collection Date: 11/4/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Chloroethane	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Chloroform	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Chloromethane	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Ethylbenzene	200	50		µg/L	10	11/11/2004 5:14:00 PM
m,p-Xylene	180	10		µg/L	1	11/11/2004 1:35:00 PM
Methylene chloride	ND	10		µg/L	1	11/11/2004 1:35:00 PM
Styrene	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Toluene	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/11/2004 1:35:00 PM
Vinyl acetate	ND	10		µg/L	1	11/11/2004 1:35:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/11/2004 1:35:00 PM
Xylenes, Total	180	15		µg/L	1	11/11/2004 1:35:00 PM
Surr: 1,2-Dichloroethane-d4	90.9	71-126		%REC	1	11/11/2004 1:35:00 PM
Surr: 1,2-Dichloroethane-d4	91.3	71-126		%REC	10	11/11/2004 5:14:00 PM
Surr: 1,2-Dichloroethane-d4	86.8	71-126		%REC	25	11/11/2004 7:03:00 PM
Surr: 4-Bromofluorobenzene	98.9	74-125		%REC	1	11/11/2004 1:35:00 PM
Surr: 4-Bromofluorobenzene	100	74-125		%REC	10	11/11/2004 5:14:00 PM
Surr: 4-Bromofluorobenzene	96.8	74-125		%REC	25	11/11/2004 7:03:00 PM
Surr: Dibromofluoromethane	96.4	73-126		%REC	10	11/11/2004 5:14:00 PM
Surr: Dibromofluoromethane	92.8	73-126		%REC	25	11/11/2004 7:03:00 PM
Surr: Dibromofluoromethane	94.5	73-126		%REC	1	11/11/2004 1:35:00 PM
Surr: Toluene-d8	101	75-125		%REC	10	11/11/2004 5:14:00 PM
Surr: Toluene-d8	98.4	75-125		%REC	25	11/11/2004 7:03:00 PM
Surr: Toluene-d8	101	75-125		%REC	1	11/11/2004 1:35:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	377	5.00		mg/L	10	11/19/2004 3:10:00 PM
Fluoride	1.03	0.100		mg/L	1	11/18/2004 11:29:00 PM
Sulfate	139	10.0		mg/L	10	11/19/2004 3:10:00 PM
Surr: Dichloroacetic acid (surr)	100	80-120		%REC	1	11/18/2004 11:29:00 PM
Surr: Dichloroacetic acid (surr)	101	80-120		%REC	10	11/19/2004 3:10:00 PM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	633	5.00		mg/L	1	11/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Total (As CaCO ₃)	633	5.00		mg/L	1	11/14/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	*	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-05

Client Sample ID: NCL-34
Collection Date: 11/4/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, TOTAL Cyanide	ND	0.0200		mg/L	1	Analyst: LMD 11/12/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-06

Client Sample ID: MW-60
Collection Date: 11/4/2004 10:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	11/11/2004 3:49:06 PM
ICP METALS, TOTAL			SW6020			
Aluminum	0.0510	0.0200		mg/L	2	11/18/2004 2:27:00 PM
Arsenic	0.0359	0.0100		mg/L	2	11/18/2004 2:27:00 PM
Barium	0.0105	0.0100		mg/L	2	11/18/2004 2:27:00 PM
Beryllium	ND	0.00400		mg/L	2	11/18/2004 2:27:00 PM
Boron	0.418	0.200		mg/L	10	11/16/2004 1:18:00 AM
Cadmium	ND	0.00200		mg/L	2	11/18/2004 2:27:00 PM
Calcium	368	25.0		mg/L	50	11/15/2004 11:56:00 PM
Chromium	ND	0.00400		mg/L	2	11/18/2004 2:27:00 PM
Cobalt	0.00739	0.00400		mg/L	2	11/18/2004 2:27:00 PM
Copper	ND	0.00400		mg/L	2	11/18/2004 2:27:00 PM
Iron	3.46	0.400		mg/L	2	11/18/2004 5:53:00 PM
Lead	ND	0.0100		mg/L	2	11/18/2004 2:27:00 PM
Magnesium	293	10.0		mg/L	50	11/15/2004 11:56:00 PM
Manganese	0.694	0.0500		mg/L	10	11/16/2004 1:18:00 AM
Molybdenum	ND	0.0100		mg/L	2	11/18/2004 2:27:00 PM
Nickel	0.0115	0.0100		mg/L	2	11/18/2004 2:27:00 PM
Potassium	0.475	0.400		mg/L	2	11/18/2004 2:27:00 PM
Selenium	ND	0.0100		mg/L	2	11/18/2004 2:27:00 PM
Silver	ND	0.0100		mg/L	2	11/18/2004 2:27:00 PM
Sodium	178	10.0		mg/L	50	11/15/2004 11:56:00 PM
Vanadium	ND	0.0100		mg/L	2	11/18/2004 2:27:00 PM
Zinc	ND	0.0100		mg/L	2	11/18/2004 2:27:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	11/17/2004 4:41:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	11/17/2004 4:41:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
2-Methylphenol	ND	11		µg/L	1	11/17/2004 4:41:00 PM
2-Nitroaniline	ND	11		µg/L	1	11/17/2004 4:41:00 PM
2-Nitrophenol	ND	11		µg/L	1	11/17/2004 4:41:00 PM
3&4-Methylphenol	ND	11		µg/L	1	11/17/2004 4:41:00 PM
3-Nitroaniline	ND	11		µg/L	1	11/17/2004 4:41:00 PM
4-Nitroaniline	ND	11		µg/L	1	11/17/2004 4:41:00 PM
4-Nitrophenol	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Acenaphthene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Acenaphthylene	ND	11		µg/L	1	11/17/2004 4:41:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 AR Page 17 of 25

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-06

Client Sample ID: MW-60
Collection Date: 11/4/2004 10:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Anthracene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Benz(a)anthracene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Benzidine	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Hexachloroethane	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Isophorone	ND	11		µg/L	1	11/17/2004 4:41:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	11/17/2004 4:41:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	11/17/2004 4:41:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Naphthalene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Nitrobenzene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Pentachlorophenol	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Phenanthrene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Phenol	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Pyrene	ND	11		µg/L	1	11/17/2004 4:41:00 PM
Surr: 2,4,6-Tribromophenol	94.7	39-153		%REC	1	11/17/2004 4:41:00 PM
Surr: 2-Fluorobiphenyl	85.6	40-147		%REC	1	11/17/2004 4:41:00 PM
Surr: 2-Fluorophenol	44.9	21-110		%REC	1	11/17/2004 4:41:00 PM
Surr: 4-Terphenyl-d14	92.0	39-141		%REC	1	11/17/2004 4:41:00 PM
Surr: Nitrobenzene-d5	88.0	37-140		%REC	1	11/17/2004 4:41:00 PM
Surr: Phenol-d6	26.3	11-100		%REC	1	11/17/2004 4:41:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	11/11/2004 4:47:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	11/11/2004 4:47:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	11/11/2004 4:47:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	11/11/2004 4:47:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	11/11/2004 4:47:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	11/11/2004 4:47:00 PM
2-Butanone	ND	10	µg/L	11/11/2004 4:47:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	11/11/2004 4:47:00 PM
2-Hexanone	ND	10	µg/L	11/11/2004 4:47:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	11/11/2004 4:47:00 PM
Acetone	ND	10	µg/L	11/11/2004 4:47:00 PM
Benzene	9.0	5.0	µg/L	11/11/2004 4:47:00 PM
Bromodichloromethane	ND	5.0	µg/L	11/11/2004 4:47:00 PM
Bromoform	ND	5.0	µg/L	11/11/2004 4:47:00 PM
Bromomethane	ND	5.0	µg/L	11/11/2004 4:47:00 PM
Carbon disulfide	ND	10	µg/L	11/11/2004 4:47:00 PM
Carbon tetrachloride	ND	5.0	µg/L	11/11/2004 4:47:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-06

Client Sample ID: MW-60
Collection Date: 11/4/2004 10:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Chloroethane	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Chloroform	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Chloromethane	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Ethylbenzene	7.2	5.0		µg/L	1	11/11/2004 4:47:00 PM
m,p-Xylene	ND	10		µg/L	1	11/11/2004 4:47:00 PM
Methylene chloride	ND	10		µg/L	1	11/11/2004 4:47:00 PM
Styrene	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Toluene	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/11/2004 4:47:00 PM
Vinyl acetate	ND	10		µg/L	1	11/11/2004 4:47:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/11/2004 4:47:00 PM
Xylenes, Total	ND	15		µg/L	1	11/11/2004 4:47:00 PM
Surr: 1,2-Dichloroethane-d4	92.8	71-126		%REC	1	11/11/2004 4:47:00 PM
Surr: 4-Bromofluorobenzene	102	74-125		%REC	1	11/11/2004 4:47:00 PM
Surr: Dibromofluoromethane	93.6	73-126		%REC	1	11/11/2004 4:47:00 PM
Surr: Toluene-d8	99.1	75-125		%REC	1	11/11/2004 4:47:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	171	5.00		mg/L	10	11/19/2004 1:52:00 AM
Fluoride	1.04	0.100		mg/L	1	11/19/2004 1:23:00 AM
Sulfate	1,830	100		mg/L	100	11/19/2004 2:20:00 AM
Surr: Dichloroacetic acid (surr)	102	80-120		%REC	1	11/19/2004 1:23:00 AM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	10	11/19/2004 1:52:00 AM
Surr: Dichloroacetic acid (surr)	112	80-120		%REC	100	11/19/2004 2:20:00 AM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	515	5.00		mg/L	1	11/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Total (As CaCO ₃)	515	5.00		mg/L	1	11/14/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/12/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-07

Client Sample ID: MW-59
Collection Date: 11/4/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	11/11/2004 3:50:37 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0200		mg/L	2	11/18/2004 2:32:00 PM
Arsenic	0.0318	0.0100		mg/L	2	11/18/2004 2:32:00 PM
Barium	0.0184	0.0100		mg/L	2	11/18/2004 2:32:00 PM
Beryllium	ND	0.00400		mg/L	2	11/18/2004 2:32:00 PM
Boron	0.321	0.200		mg/L	10	11/16/2004 1:41:00 AM
Cadmium	ND	0.00200		mg/L	2	11/18/2004 2:32:00 PM
Calcium	451	25.0		mg/L	50	11/16/2004 12:02:00 AM
Chromium	ND	0.00400		mg/L	2	11/18/2004 2:32:00 PM
Cobalt	ND	0.00400		mg/L	2	11/18/2004 2:32:00 PM
Copper	ND	0.00400		mg/L	2	11/18/2004 2:32:00 PM
Iron	1.68	0.400		mg/L	2	11/18/2004 5:58:00 PM
Lead	ND	0.0100		mg/L	2	11/18/2004 2:32:00 PM
Magnesium	279	10.0		mg/L	50	11/16/2004 12:02:00 AM
Manganese	0.370	0.0500		mg/L	10	11/16/2004 1:41:00 AM
Molybdenum	ND	0.0100		mg/L	2	11/18/2004 2:32:00 PM
Nickel	ND	0.0100		mg/L	2	11/18/2004 2:32:00 PM
Potassium	0.515	0.400		mg/L	2	11/18/2004 2:32:00 PM
Selenium	ND	0.0100		mg/L	2	11/18/2004 2:32:00 PM
Silver	ND	0.0100		mg/L	2	11/18/2004 2:32:00 PM
Sodium	147	2.00		mg/L	10	11/16/2004 1:41:00 AM
Vanadium	ND	0.0100		mg/L	2	11/18/2004 2:32:00 PM
Zinc	0.0124	0.0100		mg/L	2	11/18/2004 2:32:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	11/17/2004 5:08:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	11/17/2004 5:08:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
2-Methylphenol	ND	11		µg/L	1	11/17/2004 5:08:00 PM
2-Nitroaniline	ND	11		µg/L	1	11/17/2004 5:08:00 PM
2-Nitrophenol	ND	11		µg/L	1	11/17/2004 5:08:00 PM
3&4-Methylphenol	ND	11		µg/L	1	11/17/2004 5:08:00 PM
3-Nitroaniline	ND	11		µg/L	1	11/17/2004 5:08:00 PM
4-Nitroaniline	ND	11		µg/L	1	11/17/2004 5:08:00 PM
4-Nitrophenol	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Acenaphthene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Acenaphthylene	ND	11		µg/L	1	11/17/2004 5:08:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

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e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-07

Client Sample ID: MW-59
Collection Date: 11/4/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Anthracene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Benz(a)anthracene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Benzidine	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Hexachloroethane	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Isophorone	ND	11		µg/L	1	11/17/2004 5:08:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	11/17/2004 5:08:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	11/17/2004 5:08:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Naphthalene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Nitrobenzene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Pentachlorophenol	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Phenanthrene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Phenol	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Pyrene	ND	11		µg/L	1	11/17/2004 5:08:00 PM
Surr: 2,4,6-Tribromophenol	75.0	39-153		%REC	1	11/17/2004 5:08:00 PM
Surr: 2-Fluorobiphenyl	80.6	40-147		%REC	1	11/17/2004 5:08:00 PM
Surr: 2-Fluorophenol	34.1	21-110		%REC	1	11/17/2004 5:08:00 PM
Surr: 4-Terphenyl-d14	91.0	39-141		%REC	1	11/17/2004 5:08:00 PM
Surr: Nitrobenzene-d5	83.5	37-140		%REC	1	11/17/2004 5:08:00 PM
Surr: Phenol-d6	24.8	11-100		%REC	1	11/17/2004 5:08:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	830	50	µg/L	10
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-07

Client Sample ID: MW-59
Collection Date: 11/4/2004 1:30:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Chloroethane	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Chloroform	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Chloromethane	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Ethylbenzene	85	5.0		µg/L	1	11/11/2004 5:41:00 PM
m,p-Xylene	ND	10		µg/L	1	11/11/2004 5:41:00 PM
Methylene chloride	ND	10		µg/L	1	11/11/2004 5:41:00 PM
Styrene	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Toluene	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/11/2004 5:41:00 PM
Vinyl acetate	ND	10		µg/L	1	11/11/2004 5:41:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/11/2004 5:41:00 PM
Xylenes, Total	ND	15		µg/L	1	11/11/2004 5:41:00 PM
Surr: 1,2-Dichloroethane-d4	91.7	71-126		%REC	1	11/11/2004 5:41:00 PM
Surr: 1,2-Dichloroethane-d4	91.1	71-126		%REC	10	11/11/2004 9:20:00 PM
Surr: 4-Bromofluorobenzene	101	74-125		%REC	1	11/11/2004 5:41:00 PM
Surr: 4-Bromofluorobenzene	95.2	74-125		%REC	10	11/11/2004 9:20:00 PM
Surr: Dibromofluoromethane	94.0	73-126		%REC	10	11/11/2004 9:20:00 PM
Surr: Dibromofluoromethane	94.7	73-126		%REC	1	11/11/2004 5:41:00 PM
Surr: Toluene-d8	97.4	75-125		%REC	1	11/11/2004 5:41:00 PM
Surr: Toluene-d8	98.9	75-125		%REC	10	11/11/2004 9:20:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	158	5.00		mg/L	10	11/19/2004 3:46:00 AM
Fluoride	1.13	0.100		mg/L	1	11/19/2004 3:17:00 AM
Sulfate	1,720	100		mg/L	100	11/19/2004 4:15:00 AM
Surr: Dichloroacetic acid (surr)	107	80-120		%REC	1	11/19/2004 3:17:00 AM
Surr: Dichloroacetic acid (surr)	109	80-120		%REC	10	11/19/2004 3:46:00 AM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	100	11/19/2004 4:15:00 AM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	471	5.00		mg/L	1	11/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Total (As CaCO ₃)	471	5.00		mg/L	1	11/14/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/12/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-08

Client Sample ID: TEL-4
Collection Date: 11/4/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	11/11/2004 3:52:08 PM
ICP METALS, TOTAL			SW6020			
Aluminum	ND	0.0200		mg/L	2	11/18/2004 2:37:00 PM
Arsenic	0.0101	0.0100		mg/L	2	11/18/2004 2:37:00 PM
Barium	0.0704	0.0100		mg/L	2	11/18/2004 2:37:00 PM
Beryllium	ND	0.00400		mg/L	2	11/18/2004 2:37:00 PM
Boron	0.578	0.200		mg/L	10	11/16/2004 1:47:00 AM
Cadmium	ND	0.00200		mg/L	2	11/18/2004 2:37:00 PM
Calcium	237	25.0		mg/L	50	11/16/2004 12:26:00 AM
Chromium	ND	0.00400		mg/L	2	11/18/2004 2:37:00 PM
Cobalt	ND	0.00400		mg/L	2	11/18/2004 2:37:00 PM
Copper	ND	0.00400		mg/L	2	11/18/2004 2:37:00 PM
Iron	0.975	0.400		mg/L	2	11/18/2004 6:02:00 PM
Lead	ND	0.0100		mg/L	2	11/18/2004 2:37:00 PM
Magnesium	198	10.0		mg/L	50	11/16/2004 12:26:00 AM
Manganese	0.509	0.0500		mg/L	10	11/16/2004 1:47:00 AM
Molybdenum	ND	0.0100		mg/L	2	11/18/2004 2:37:00 PM
Nickel	ND	0.0100		mg/L	2	11/18/2004 2:37:00 PM
Potassium	ND	0.400		mg/L	2	11/18/2004 2:37:00 PM
Selenium	ND	0.0100		mg/L	2	11/18/2004 2:37:00 PM
Silver	ND	0.0100		mg/L	2	11/18/2004 2:37:00 PM
Sodium	230	10.0		mg/L	50	11/16/2004 12:26:00 AM
Vanadium	ND	0.0100		mg/L	2	11/18/2004 2:37:00 PM
Zinc	ND	0.0100		mg/L	2	11/18/2004 2:37:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/17/2004 5:35:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/17/2004 5:35:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
2-Methylphenol	ND	10		µg/L	1	11/17/2004 5:35:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/17/2004 5:35:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/17/2004 5:35:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/17/2004 5:35:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/17/2004 5:35:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/17/2004 5:35:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Acenaphthene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Acenaphthylene	ND	10		µg/L	1	11/17/2004 5:35:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time
 AR Page 23 of 25

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-08

Client Sample ID: TEL-4
Collection Date: 11/4/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Anthracene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Benzidine	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Hexachloroethane	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Isophorone	ND	10		µg/L	1	11/17/2004 5:35:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/17/2004 5:35:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/17/2004 5:35:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Naphthalene	11	10		µg/L	1	11/17/2004 5:35:00 PM
Nitrobenzene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Phenanthrene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Phenol	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Pyrene	ND	10		µg/L	1	11/17/2004 5:35:00 PM
Surr: 2,4,6-Tribromophenol	97.6	39-153		%REC	1	11/17/2004 5:35:00 PM
Surr: 2-Fluorobiphenyl	87.5	40-147		%REC	1	11/17/2004 5:35:00 PM
Surr: 2-Fluorophenol	45.0	21-110		%REC	1	11/17/2004 5:35:00 PM
Surr: 4-Terphenyl-d14	87.2	39-141		%REC	1	11/17/2004 5:35:00 PM
Surr: Nitrobenzene-d5	87.0	37-140		%REC	1	11/17/2004 5:35:00 PM
Surr: Phenol-d6	27.9	11-100		%REC	1	11/17/2004 5:35:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	11/11/2004 6:36:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	11/11/2004 6:36:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	11/11/2004 6:36:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	11/11/2004 6:36:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	11/11/2004 6:36:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	11/11/2004 6:36:00 PM
2-Butanone	ND	10	µg/L	11/11/2004 6:36:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	11/11/2004 6:36:00 PM
2-Hexanone	ND	10	µg/L	11/11/2004 6:36:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	11/11/2004 6:36:00 PM
Acetone	ND	10	µg/L	11/11/2004 6:36:00 PM
Benzene	530	120	µg/L	25
Bromodichloromethane	ND	5.0	µg/L	11/11/2004 6:36:00 PM
Bromoform	ND	5.0	µg/L	11/11/2004 6:36:00 PM
Bromomethane	ND	5.0	µg/L	11/11/2004 6:36:00 PM
Carbon disulfide	ND	10	µg/L	11/11/2004 6:36:00 PM
Carbon tetrachloride	ND	5.0	µg/L	11/11/2004 6:36:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 22, 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL
Lab ID: 0411050-08

Client Sample ID: TEL-4
Collection Date: 11/4/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Chloroethane	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Chloroform	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Chloromethane	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Ethylbenzene	96	5.0		µg/L	1	11/11/2004 6:36:00 PM
m,p-Xylene	200	10		µg/L	1	11/11/2004 6:36:00 PM
Methylene chloride	ND	10		µg/L	1	11/11/2004 6:36:00 PM
Styrene	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Toluene	16	5.0		µg/L	1	11/11/2004 6:36:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/11/2004 6:36:00 PM
Vinyl acetate	ND	10		µg/L	1	11/11/2004 6:36:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/11/2004 6:36:00 PM
Xylenes, Total	210	15		µg/L	1	11/11/2004 6:36:00 PM
Surr: 1,2-Dichloroethane-d4	90.4	71-126		%REC	1	11/11/2004 6:36:00 PM
Surr: 1,2-Dichloroethane-d4	92.3	71-126		%REC	25	11/12/2004 4:33:00 PM
Surr: 4-Bromofluorobenzene	101	74-125		%REC	1	11/11/2004 6:36:00 PM
Surr: 4-Bromofluorobenzene	100	74-125		%REC	25	11/12/2004 4:33:00 PM
Surr: Dibromofluoromethane	95.1	73-126		%REC	25	11/12/2004 4:33:00 PM
Surr: Dibromofluoromethane	96.3	73-126		%REC	1	11/11/2004 6:36:00 PM
Surr: Toluene-d8	102	75-125		%REC	1	11/11/2004 6:36:00 PM
Surr: Toluene-d8	99.4	75-125		%REC	25	11/12/2004 4:33:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	416	10.0		mg/L	20	11/19/2004 5:12:00 AM
Fluoride	0.590	0.100		mg/L	1	11/19/2004 4:43:00 AM
Sulfate	506	20.0		mg/L	20	11/19/2004 5:12:00 AM
Surr: Dichloroacetic acid (surr)	94.6	80-120		%REC	1	11/19/2004 4:43:00 AM
Surr: Dichloroacetic acid (surr)	105	80-120		%REC	20	11/19/2004 5:12:00 AM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	794	5.00		mg/L	1	11/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	11/14/2004
Alkalinity, Total (As CaCO ₃)	794	5.00		mg/L	1	11/14/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/12/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	*	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Nov 22 2004

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11045 InstrumentID: ICP4500

MBLK Sample ID: MBLKW1-110904		Test Code: SW6020		Units: mg/L		Analysis Date: 11/16/04 13:19		
Client ID: Run ID: ICP4500_041116A		SeqNo: 574591		Prep Date: 11/9/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	0.001676		0.010					J
Arsenic	ND		0.0050					
Barium	ND		0.0050					
Beryllium	ND		0.0020					
Boron	ND		0.020					
Cadmium	ND		0.0020					
Calcium	ND		0.50					
Chromium	ND		0.0050					
Cobalt	0.0001279		0.0050					J
Copper	ND		0.0050					
Iron	0.0288		0.20					J
Lead	ND		0.0050					
Magnesium	ND		0.20					
Manganese	ND		0.0050					
Nickel	ND		0.0050					
Potassium	ND		0.20					
Silver	ND		0.0050					
Sodium	ND		0.20					
Vanadium	ND		0.0050					
Zinc	ND		0.0050					

MBLK Sample ID: MBLKW1-110904		Test Code: SW6020		Units: mg/L		Analysis Date: 11/16/04 16:14		
Client ID: Run ID: ICP4500_041116A		SeqNo: 574877		Prep Date: 11/9/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Selenium	ND		0.0050					

MBLK Sample ID: MBLKW1-110904		Test Code: SW6020		Units: mg/L		Analysis Date: 11/17/04 13:03		
Client ID: Run ID: ICP4500_041117A		SeqNo: 575369		Prep Date: 11/9/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Molybdenum	ND		0.0050					

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11045 InstrumentID: ICP4500

LCS	Sample ID: MLCSW1-110904	Test Code: SW6020		Units: mg/L		Analysis Date: 11/16/04 13:24				
Client ID:		Run ID:	ICP4500_041116A	SeqNo:	574592	Prep Date:	11/9/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04427	0.010	0.05	0	88.5	79-126		0		
Arsenic	0.04549	0.0050	0.05	0	91	80-121		0		
Barium	0.04361	0.0050	0.05	0	87.2	79.8-119		0		
Beryllium	0.04763	0.0020	0.05	0	95.3	78.9-120		0		
Boron	0.4892	0.020	0.5	0	97.8	80-120		0		
Cadmium	0.04708	0.0020	0.05	0	94.2	79.1-119		0		
Calcium	4.466	0.50	5	0	89.3	80-121		0		
Chromium	0.04205	0.0050	0.05	0	84.1	79.3-121		0		
Cobalt	0.0438	0.0050	0.05	0	87.6	82-121		0		
Copper	0.04398	0.0050	0.05	0	88	81-120		0		
Iron	4.59	0.20	5	0	91.8	80-120		0		
Lead	0.04255	0.0050	0.05	0	85.1	80-118		0		
Magnesium	4.605	0.20	5	0	92.1	80-120		0		
Manganese	0.04302	0.0050	0.05	0	86	82-119		0		
Nickel	0.04372	0.0050	0.05	0	87.4	82-120		0		
Potassium	4.43	0.20	5	0	88.6	80-120		0		
Silver	0.04196	0.0050	0.05	0	83.9	80-117		0		
Sodium	4.418	0.20	5	0	88.4	80.6-119		0		
Vanadium	0.04195	0.0050	0.05	0	83.9	82.1-119		0		
Zinc	0.04568	0.0050	0.05	0	91.4	79-118		0		

LCS	Sample ID: MLCSW1-110904	Test Code: SW6020		Units: mg/L		Analysis Date: 11/16/04 16:18				
Client ID:		Run ID:	ICP4500_041116A	SeqNo:	574878	Prep Date:	11/9/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	0.04869	0.0050	0.05	0	97.4	79.2-118		0		

LCS	Sample ID: MLCSW1-110904	Test Code: SW6020		Units: mg/L		Analysis Date: 11/17/04 13:07				
Client ID:		Run ID:	ICP4500_041117A	SeqNo:	575370	Prep Date:	11/9/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Molybdenum	0.0444	0.0050	0.05	0	88.8	81-115		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11045 InstrumentID: ICP4500

MS	Sample ID: 0411068-05CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 11/16/04 20:04			
Client ID:		Run ID:	ICP4500_041116A	SeqNo:	574948	Prep Date:	11/9/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.871	0.010	0.05	1.454	834	79-126	0	0		SEO
Arsenic	0.04223	0.0050	0.05	-0.003737	91.9	80-121	0	0		
Barium	0.1964	0.0050	0.05	0.1439	105	79.8-119	0	0		
Beryllium	0.05039	0.0020	0.05	0.0001621	100	78.9-120	0	0		
Boron	0.6361	0.020	0.5	0.1158	104	80-120	0	0		
Cadmium	0.04358	0.0020	0.05	0.0002592	86.6	79.1-119	0	0		
Calcium	150.9	0.50	5	149.3	32	80-121	0	0		SEO
Chromium	0.05463	0.0050	0.05	0.003694	102	79.3-121	0	0		
Cobalt	0.05009	0.0050	0.05	0.004229	91.7	82-121	0	0		
Copper	0.04699	0.0050	0.05	0.005076	83.8	80-120	0	0		
Iron	8.607	0.20	5	2.97	113	80-120	0	0		
Lead	0.05052	0.0050	0.05	0.002172	96.7	80-118	0	0		
Magnesium	55.02	0.20	5	53.09	38.6	80-120	0	0		SEO
Manganese	2.243	0.0050	0.05	2.281	76	82-119	0	0		SEO
Molybdenum	0.0586	0.0050	0.05	0.01211	93	81-115	0	0		
Nickel	0.05455	0.0050	0.05	0.01075	87.6	82-120	0	0		
Potassium	6.475	0.20	5	1.318	103	80-120	0	0		
Selenium	0.007537	0.0050	0.05	-0.02857	72.2	79.2-118	0	0		S
Silver	0.03709	0.0050	0.05	0.00005085	74.1	80-117	0	0		S
Sodium	ND	0.20	5	0	0	80.6-119	0	0		S
Vanadium	0.0557	0.0050	0.05	0.00302	105	82.1-119	0	0		
Zinc	0.07464	0.0050	0.05	0.03171	85.9	79-118	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11045 InstrumentID: ICP4500

MSD	Sample ID: 0411068-05CMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 11/16/04 20:09			
Client ID:	Run ID: ICP4500_041116A		SeqNo:	574949	Prep Date:	11/9/2004	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.712	0.010	0.05	1.454	516	79-126	1.871	8.88	15	SEO
Arsenic	0.04289	0.0050	0.05	-0.003737	93.3	80-121	0.04223	1.55	15	
Barium	0.1907	0.0050	0.05	0.1439	93.6	79.8-119	0.1964	2.94	15	
Beryllium	0.04939	0.0020	0.05	0.0001621	98.5	78.9-120	0.05039	2	15	
Boron	0.631	0.020	0.5	0.1158	103	80-120	0.6361	0.805	15	
Cadmium	0.0428	0.0020	0.05	0.0002592	85.1	79.1-119	0.04358	1.81	15	
Calcium	145.8	0.50	5	149.3	-70	80-121	150.9	3.44	15	SEO
Chromium	0.05199	0.0050	0.05	0.003694	96.6	79.3-121	0.05463	4.95	15	
Cobalt	0.049	0.0050	0.05	0.004229	89.5	82-121	0.05009	2.2	15	
Copper	0.04612	0.0050	0.05	0.005076	82.1	81-120	0.04699	1.87	15	
Iron	8.676	0.20	5	2.97	114	80-120	8.607	0.798	15	
Lead	0.04928	0.0050	0.05	0.002172	94.2	80-118	0.05052	2.48	15	
Magnesium	53.5	0.20	5	53.09	8.2	80-120	55.02	2.8	15	SEO
Manganese	2.188	0.0050	0.05	2.281	-186	82-119	2.243	2.48	15	SEO
Molybdenum	0.05735	0.0050	0.05	0.01211	90.5	81-115	0.0586	2.16	15	
Nickel	0.05326	0.0050	0.05	0.01075	85	82-120	0.05455	2.39	15	
Potassium	6.283	0.20	5	1.318	99.3	80-120	6.475	3.01	15	
Selenium	0.01074	0.0050	0.05	-0.02857	78.6	79.2-118	0.007537	35	15	SR
Silver	0.03652	0.0050	0.05	0.00005085	72.9	80-117	0.03709	1.55	15	S
Sodium	ND	0.20	5	0	0	80.6-119	0	0	15	S
Vanadium	0.0545	0.0050	0.05	0.00302	103	82.1-119	0.0557	2.18	15	
Zinc	0.06645	0.0050	0.05	0.03171	69.5	79-118	0.07464	11.6	15	S

DUP	Sample ID: 0411068-05CDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 11/16/04 19:06			
Client ID:	Run ID: ICP4500_041116A		SeqNo:	574943	Prep Date:	11/9/2004	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0050	0	0	0	0-0	-0.003737	0	25	
Barium	0.1485	0.0050	0	0	0	0-0	0.1439	3.15	25	
Beryllium	ND	0.0020	0	0	0	0-0	0.0001621	0	25	
Boron	0.1175	0.020	0	0	0	0-0	0.1158	1.46	25	
Cadmium	0.0002257	0.0020	0	0	0	0-0	0.0002592	0	25	J
Cobalt	0.004406	0.0050	0	0	0	0-0	0.004229	0	25	J
Copper	0.005255	0.0050	0	0	0	0-0	0.005076	3.47	25	
Iron	3.423	0.20	0	0	0	0-0	2.97	14.2	25	
Nickel	0.01132	0.0050	0	0	0	0-0	0.01075	5.17	25	
Potassium	1.532	0.20	0	0	0	0-0	1.318	15	25	
Silver	ND	0.0050	0	0	0	0-0	0.00005085	0	25	
Zinc	0.03252	0.0050	0	0	0	0-0	0.03171	2.52	25	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11045 InstrumentID: ICP4500

DUP Sample ID: 0411068-05CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/17/04 13:45

Client ID: Run ID: ICP4500_041117A SeqNo: 575377 Prep Date: 11/9/2004 DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Aluminum	1.681	0.20	0	0	0	0-0	1.33	23.3	25	
Calcium	144.1	10	0	0	0	0-0	139.7	3.1	25	
Magnesium	51.58	4.0	0	0	0	0-0	50.92	1.29	25	
Manganese	2.289	0.10	0	0	0	0-0	2.246	1.9	25	

DUP Sample ID: 0411068-05CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/17/04 13:55

Client ID: Run ID: ICP4500_041117A SeqNo: 575379 Prep Date: 11/9/2004 DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Sodium	600.2	20	0	0	0	0-0	534.7	11.5	25	

DUP Sample ID: 0411068-05CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/17/04 14:51

Client ID: Run ID: ICP4500_041117A SeqNo: 575414 Prep Date: 11/9/2004 DF: 5

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Selenium	ND	0.025	0	0	0	0-0	-0.01575	0	25	

DUP Sample ID: 0411068-05CDUP Test Code: SW6020 Units: mg/L Analysis Date: 11/17/04 15:00

Client ID: Run ID: ICP4500_041117A SeqNo: 575416 Prep Date: 11/9/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Chromium	0.003627	0.0050	0	0	0	0-0	0.003127	0	25	J
Lead	0.002121	0.0050	0	0	0	0-0	0.002133	0	25	J
Molybdenum	0.01091	0.0050	0	0	0	0-0	0.01065	2.41	25	
Vanadium	0.003494	0.0050	0	0	0	0-0	0.002871	0	25	J

The following samples were analyzed in this batch:

0411050-01C	0411050-02C	0411050-03C
0411050-04C	0411050-05C	0411050-06C
0411050-07C	0411050-08C	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11077 InstrumentID: Mercury

MBLK Sample ID: GBLKW4-111004 Test Code: SW7470 Units: mg/L Analysis Date: 11/11/04 15:18

Client ID: Run ID: MERCURY_041111E SeqNo: 571950 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Mercury ND 0.00020

LCS Sample ID: GLCSW4-111004 Test Code: SW7470 Units: mg/L Analysis Date: 11/11/04 15:20

Client ID: Run ID: MERCURY_041111E SeqNo: 571952 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Mercury 0.00463 0.00020 0.005 0 92.6 83-115 0

LCSD Sample ID: GLCSDW4-111004 Test Code: SW7470 Units: mg/L Analysis Date: 11/11/04 15:21

Client ID: Run ID: MERCURY_041111E SeqNo: 571953 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Mercury 0.00457 0.00020 0.005 0 91.4 83-115 0.00463 1.3 20

MS Sample ID: 0411040-01CMS Test Code: SW7470 Units: mg/L Analysis Date: 11/11/04 15:26

Client ID: Run ID: MERCURY_041111E SeqNo: 571956 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Mercury 0.00474 0.00020 0.005 0.00001 94.6 83-115 0

MSD Sample ID: 0411040-01CMSD Test Code: SW7470 Units: mg/L Analysis Date: 11/11/04 15:28

Client ID: Run ID: MERCURY_041111E SeqNo: 571957 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Mercury 0.00473 0.00020 0.005 0.00001 94.4 83-115 0.00474 0.211 20

DUP Sample ID: 0411040-01CDUP Test Code: SW7470 Units: mg/L Analysis Date: 11/11/04 15:25

Client ID: Run ID: MERCURY_041111E SeqNo: 571955 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
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Mercury ND 0.00020 0 0 0 0-0 0.00001 0 20

The following samples were analyzed in this batch:

0411050-01C	0411050-02C	0411050-03C
0411050-04C	0411050-05C	0411050-06C
0411050-07C	0411050-08C	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11038 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-041108	Test Code: SW8270		Units: µg/L		Analysis Date: 11/10/04 16:48		
Client ID:	Run ID: SV-3_041110A	SeqNo:	572237	Prep Date: 11/8/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	ND	10						
2,4,5-Trichlorophenol	ND	10						
2,4,6-Trichlorophenol	ND	10						
2-Methylnaphthalene	ND	10						
2-Methylphenol	ND	10						
2-Nitroaniline	ND	10						
2-Nitrophenol	ND	10						
3&4-Methylphenol	ND	10						
3-Nitroaniline	ND	10						
4-Nitroaniline	ND	10						
4-Nitrophenol	ND	10						
Acenaphthene	ND	10						
Acenaphthylene	ND	10						
Aniline	ND	10						
Anthracene	ND	10						
Benz(a)anthracene	ND	10						
Benzidine	ND	10						
Hexachloroethane	ND	10						
Indeno(1,2,3-cd)pyrene	ND	10						
Isophorone	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitrosodiphenylamine	ND	10						
Naphthalene	ND	10						
Nitrobenzene	ND	10						
Pentachlorophenol	ND	10						
Phenanthrene	ND	10						
Phenol	ND	10						
Pyrene	ND	10						
1,4-Dichlorobenzene-d4	40	0						
Acenaphthene-d10	40	0						
Chrysene-d12	40	0						
Naphthalene-d8	40	0						
Perylene-d12	40	0						
Phenanthrene-d10	40	0						
Surr: 2,4,6-Tribromophenol	94	10	100	0	94	39-153	0	
Surr: 2-Fluorobiphenyl	84.79	10	100	0	84.8	40-147	0	
Surr: 2-Fluorophenol	40.98	10	100	0	41	21-110	0	
Surr: 4-Terphenyl-d14	93.24	10	100	0	93.2	39-141	0	
Surr: Nitrobenzene-d5	82.52	10	100	0	82.5	37-140	0	
Surr: Phenol-d6	25.3	10	100	0	25.3	11-100	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11038 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-041108	Test Code: SW8270		Units: µg/L		Analysis Date: 11/10/04 17:14		
Client ID:		Run ID:	SV-3_04110A	SeqNo:	574108	Prep Date:	11/8/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
1,2,4-Trichlorobenzene	38.5	10	50	0	77	50-115	0	
2,4,5-Trichlorophenol	74.77	10	100	0	74.8	68-128	0	
2,4,6-Trichlorophenol	78.55	10	100	0	78.5	66-125	0	
2-Methylnaphthalene	37.92	10	50	0	75.8	47-122	0	
2-Methylphenol	66.14	10	100	0	66.1	51-115	0	
2-Nitroaniline	38.34	10	50	0	76.7	64-128	0	
2-Nitrophenol	80.45	10	100	0	80.5	60-119	0	
3&4-Methylphenol	86.7	10	150	0	57.8	44-115	0	
3-Nitroaniline	30.95	10	50	0	61.9	61-118	0	
4-Nitroaniline	34.99	10	50	0	70	61-123	0	
4-Nitrophenol	32.54	10	100	0	32.5	17-100	0	
Acenaphthene	38.91	10	50	0	77.8	68-115	0	
Acenaphthylene	39.46	10	50	0	78.9	67-116	0	
Aniline	37.18	10	50	0	74.4	40-130	0	
Anthracene	42.16	10	50	0	84.3	70-129	0	
Benz(a)anthracene	38.49	10	50	0	77	55-131	0	
Benzidine	21.12	10	50	0	42.2	10-115	0	
Hexachloroethane	39.29	10	50	0	78.6	46-115	0	
Indeno(1,2,3-cd)pyrene	39.89	10	50	0	79.8	42-123	0	
Isophorone	41.33	10	50	0	82.7	63-117	0	
N-Nitrosodi-n-propylamine	41.92	10	50	0	83.8	67-115	0	
N-Nitrosodimethylamine	20.21	10	50	0	40.4	28-115	0	
N-Nitrosodiphenylamine	43.43	10	50	0	86.9	72-144	0	
Naphthalene	38.85	10	50	0	77.7	52-115	0	
Nitrobenzene	37.63	10	50	0	75.3	65-115	0	
Pentachlorophenol	81.34	10	100	0	81.3	65-123	0	
Phenanthrene	42.52	10	50	0	85	69-119	0	
Phenol	30.25	10	100	0	30.3	16-115	0	
Pyrene	39.24	10	50	0	78.5	51-130	0	
Surr: 2,4,6-Tribromophenol	96.1	10	100	0	96.1	39-153	0	
Surr: 2-Fluorobiphenyl	84.53	10	100	0	84.5	40-147	0	
Surr: 2-Fluorophenol	46.2	10	100	0	46.2	21-110	0	
Surr: 4-Terphenyl-d14	88.46	10	100	0	88.5	39-141	0	
Surr: Nitrobenzene-d5	83.63	10	100	0	83.6	37-140	0	
Surr: Phenol-d6	31.24	10	100	0	31.2	11-100	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11038 InstrumentID: SV-3

LCSD	Sample ID: SLCSDW1-041108	Test Code: SW8270		Units: µg/L		Analysis Date: 11/10/04 17:40				
Client ID:		Run ID:	SV-3_041110A	SeqNo:	574109	Prep Date:	11/8/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	40.34	10	50	0	80.7	50-115	38.5	4.66	30	
2,4,5-Trichlorophenol	83.81	10	100	0	83.8	68-128	74.77	11.4	30	
2,4,6-Trichlorophenol	88.1	10	100	0	88.1	66-125	78.55	11.5	30	
2-Methylnaphthalene	39.76	10	50	0	79.5	47-122	37.92	4.72	30	
2-Methylphenol	75.07	10	100	0	75.1	51-115	66.14	12.6	30	
2-Nitroaniline	42.44	10	50	0	84.9	64-128	38.34	10.1	30	
2-Nitrophenol	90.87	10	100	0	90.9	60-119	80.45	12.2	30	
3&4-Methylphenol	100.3	10	150	0	66.9	44-115	86.7	14.5	30	
3-Nitroaniline	31.92	10	50	0	63.8	61-118	30.95	3.1	30	
4-Nitroaniline	37.61	10	50	0	75.2	61-123	34.99	7.21	30	
4-Nitrophenol	40.56	10	100	0	40.6	17-100	32.54	21.9	30	
Acenaphthene	42.99	10	50	0	86	68-115	38.91	9.98	30	
Acenaphthylene	43.76	10	50	0	87.5	67-116	39.46	10.3	30	
Aniline	32.38	10	50	0	64.8	40-130	37.18	13.8	30	
Anthracene	45.87	10	50	0	91.7	70-129	42.16	8.43	30	
Benz(a)anthracene	43.88	10	50	0	87.8	55-131	38.49	13.1	30	
Benzidine	8.579	10	50	0	17.2	10-115	21.12	0	30	J
Hexachloroethane	37.17	10	50	0	74.3	46-115	39.29	5.54	30	
Indeno(1,2,3-cd)pyrene	44.38	10	50	0	88.8	42-123	39.89	10.7	30	
Isophorone	45.58	10	50	0	91.2	63-117	41.33	9.8	30	
N-Nitrosodi-n-propylamine	45.35	10	50	0	90.7	67-115	41.92	7.88	30	
N-Nitrosodimethylamine	20.98	10	50	0	42	28-115	20.21	3.72	30	
N-Nitrosodiphenylamine	47.09	10	50	0	94.2	72-144	43.43	8.09	30	
Naphthalene	43.22	10	50	0	86.4	52-115	38.85	10.7	30	
Nitrobenzene	44.74	10	50	0	89.5	65-115	37.63	17.3	30	
Pentachlorophenol	88.66	10	100	0	88.7	65-123	81.34	8.61	30	
Phenanthrene	46.74	10	50	0	93.5	69-119	42.52	9.45	30	
Phenol	37.34	10	100	0	37.3	16-115	30.25	21	30	
Pyrene	43.59	10	50	0	87.2	51-130	39.24	10.5	30	
Surr: 2,4,6-Tribromophenol	97.67	10	100	0	97.7	39-153	96.1	1.62	30	
Surr: 2-Fluorobiphenyl	85.52	10	100	0	85.5	40-147	84.53	1.16	30	
Surr: 2-Fluorophenol	56.13	10	100	0	56.1	21-110	46.2	19.4	30	
Surr: 4-Terphenyl-d14	93.78	10	100	0	93.8	39-141	88.46	5.83	30	
Surr: Nitrobenzene-d5	89.1	10	100	0	89.1	37-140	83.63	6.34	30	
Surr: Phenol-d6	37.16	10	100	0	37.2	11-100	31.24	17.3	30	

The following samples were analyzed in this batch:

0411050-01E 0411050-02E

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **11086** InstrumentID: **SV-3**

MBLK Sample ID: SBLKW1-041111		Test Code: SW8270		Units: µg/L		Analysis Date: 11/13/04 11:19		
Client ID:		Run ID: SV-3_041112A		SeqNo: 573969		Prep Date: 11/11/2004 DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	ND	10						
2,4,5-Trichlorophenol	ND	10						
2,4,6-Trichlorophenol	ND	10						
2-Methylnaphthalene	ND	10						
2-Methylphenol	ND	10						
2-Nitroaniline	ND	10						
2-Nitrophenol	ND	10						
3&4-Methylphenol	ND	10						
3-Nitroaniline	ND	10						
4-Nitroaniline	ND	10						
4-Nitrophenol	ND	10						
Acenaphthene	ND	10						
Acenaphthylene	ND	10						
Aniline	ND	10						
Anthracene	ND	10						
Benz(a)anthracene	ND	10						
Benzidine	ND	10						
Hexachloroethane	ND	10						
Indeno(1,2,3-cd)pyrene	ND	10						
Isophorone	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitrosodiphenylamine	ND	10						
Naphthalene	ND	10						
Nitrobenzene	ND	10						
Pentachlorophenol	ND	10						
Phenanthrene	ND	10						
Phenol	ND	10						
Pyrene	ND	10						
1,4-Dichlorobenzene-d4	40	0						
Acenaphthene-d10	40	0						
Chrysene-d12	40	0						
Naphthalene-d8	40	0						
Perylene-d12	40	0						
Phenanthrene-d10	40	0						
Surr: 2,4,6-Tribromophenol	93.8	10	100	0	93.8	39-153	0	
Surr: 2-Fluorobiphenyl	92.13	10	100	0	92.1	40-147	0	
Surr: 2-Fluorophenol	43.56	10	100	0	43.6	21-110	0	
Surr: 4-Terphenyl-d14	97.74	10	100	0	97.7	39-141	0	
Surr: Nitrobenzene-d5	84.35	10	100	0	84.3	37-140	0	
Surr: Phenol-d6	25.94	10	100	0	25.9	11-100	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11086 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-041111	Test Code: SW8270		Units: µg/L		Analysis Date: 11/13/04 11:44		
Client ID:		Run ID:	SV-3_041112A	SeqNo:	573970	Prep Date:	11/11/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	43.95	10	50	0	87.9	50-115	0	0
2,4,5-Trichlorophenol	88.82	10	100	0	88.8	68-128	0	0
2,4,6-Trichlorophenol	87.3	10	100	0	87.3	66-125	0	0
2-Methylnaphthalene	46.8	10	50	0	93.6	47-122	0	0
2-Methylphenol	67.92	10	100	0	67.9	51-115	0	0
2-Nitroaniline	39.97	10	50	0	79.9	64-128	0	0
2-Nitrophenol	87.05	10	100	0	87.1	60-119	0	0
3&4-Methylphenol	90.06	10	150	0	60	44-115	0	0
3-Nitroaniline	32.07	10	50	0	64.1	61-118	0	0
4-Nitroaniline	37.84	10	50	0	75.7	61-123	0	0
4-Nitrophenol	31.62	10	100	0	31.6	17-100	0	0
Acenaphthene	44.29	10	50	0	88.6	68-115	0	0
Acenaphthylene	44.89	10	50	0	89.8	67-116	0	0
Aniline	26.5	10	50	0	53	40-130	0	0
Anthracene	46.19	10	50	0	92.4	70-129	0	0
Benz(a)anthracene	44.57	10	50	0	89.1	55-131	0	0
Benzidine	17.26	10	50	0	34.5	10-115	0	0
Hexachloroethane	44.57	10	50	0	89.1	46-115	0	0
Indeno(1,2,3-cd)pyrene	39.91	10	50	0	79.8	42-123	0	0
Isophorone	42.39	10	50	0	84.8	63-117	0	0
N-Nitrosodi-n-propylamine	41.73	10	50	0	83.5	67-115	0	0
N-Nitrosodimethylamine	23.87	10	50	0	47.7	28-115	0	0
N-Nitrosodiphenylamine	45.75	10	50	0	91.5	72-144	0	0
Naphthalene	43.25	10	50	0	86.5	52-115	0	0
Nitrobenzene	42.81	10	50	0	85.6	65-115	0	0
Pentachlorophenol	72.89	10	100	0	72.9	65-123	0	0
Phenanthrene	46.44	10	50	0	92.9	69-119	0	0
Phenol	28.44	10	100	0	28.4	16-115	0	0
Pyrene	44.33	10	50	0	88.7	51-130	0	0
Surr: 2,4,6-Tribromophenol	91.27	10	100	0	91.3	39-153	0	0
Surr: 2-Fluorobiphenyl	87.19	10	100	0	87.2	40-147	0	0
Surr: 2-Fluorophenol	48.96	10	100	0	49	21-110	0	0
Surr: 4-Terphenyl-d14	87.75	10	100	0	87.7	39-141	0	0
Surr: Nitrobenzene-d5	82.17	10	100	0	82.2	37-140	0	0
Surr: Phenol-d6	29.46	10	100	0	29.5	11-100	0	0

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11086 InstrumentID: SV-3

LCSD	Sample ID: SLCSDW1-041111	Test Code: SW8270		Units: µg/L		Analysis Date: 11/13/04 12:10				
Client ID:		Run ID:	SV-3_041112A	SeqNo:	573972	Prep Date:	11/11/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	45.63	10	50	0	91.3	50-115	43.95	3.75	30	
2,4,5-Trichlorophenol	88.91	10	100	0	88.9	68-128	88.82	0.098	30	
2,4,6-Trichlorophenol	90.16	10	100	0	90.2	66-125	87.3	3.22	30	
2-Methylnaphthalene	49.28	10	50	0	98.6	47-122	46.8	5.17	30	
2-Methylphenol	71.2	10	100	0	71.2	51-115	67.92	4.71	30	
2-Nitroaniline	40.7	10	50	0	81.4	64-128	39.97	1.8	30	
2-Nitrophenol	93.02	10	100	0	93	60-119	87.05	6.63	30	
3&4-Methylphenol	95.56	10	150	0	63.7	44-115	90.06	5.92	30	
3-Nitroaniline	31.28	10	50	0	62.6	61-118	32.07	2.48	30	
4-Nitroaniline	40.33	10	50	0	80.7	61-123	37.84	6.36	30	
4-Nitrophenol	31.54	10	100	0	31.5	17-100	31.62	0.257	30	
Acenaphthene	45.5	10	50	0	91	68-115	44.29	2.68	30	
Acenaphthylene	45.88	10	50	0	91.8	67-116	44.89	2.2	30	
Aniline	27.84	10	50	0	55.7	40-130	26.5	4.91	30	
Anthracene	46.05	10	50	0	92.1	70-129	46.19	0.303	30	
Benz(a)anthracene	44.16	10	50	0	88.3	55-131	44.57	0.91	30	
Benzidine	21.02	10	50	0	42	10-115	17.26	19.6	30	
Hexachloroethane	45.28	10	50	0	90.6	46-115	44.57	1.57	30	
Indeno(1,2,3-cd)pyrene	39.07	10	50	0	78.1	42-123	39.91	2.14	30	
Isophorone	44.04	10	50	0	88.1	63-117	42.39	3.83	30	
N-Nitrosodi-n-propylamine	42.7	10	50	0	85.4	67-115	41.73	2.31	30	
N-Nitrosodimethylamine	25.93	10	50	0	51.9	28-115	23.87	8.27	30	
N-Nitrosodiphenylamine	46.24	10	50	0	92.5	72-144	45.75	1.07	30	
Naphthalene	45.33	10	50	0	90.7	52-115	43.25	4.7	30	
Nitrobenzene	44.53	10	50	0	89.1	65-115	42.81	3.95	30	
Pentachlorophenol	72.38	10	100	0	72.4	65-123	72.89	0.694	30	
Phenanthrene	45.34	10	50	0	90.7	69-119	46.44	2.39	30	
Phenol	30.16	10	100	0	30.2	16-115	28.44	5.86	30	
Pyrene	46.09	10	50	0	92.2	51-130	44.33	3.91	30	
Surr: 2,4,6-Tribromophenol	91.99	10	100	0	92	39-153	91.27	0.785	30	
Surr: 2-Fluorobiphenyl	88.33	10	100	0	88.3	40-147	87.19	1.3	30	
Surr: 2-Fluorophenol	51.46	10	100	0	51.5	21-110	48.96	4.97	30	
Surr: 4-Terphenyl-d14	89.38	10	100	0	89.4	39-141	87.75	1.85	30	
Surr: Nitrobenzene-d5	85.34	10	100	0	85.3	37-140	82.17	3.79	30	
Surr: Phenol-d6	29.73	10	100	0	29.7	11-100	29.46	0.916	30	

The following samples were analyzed in this batch:

0411050-03E	0411050-04E	0411050-05E
0411050-06E	0411050-07E	0411050-08E

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24456 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-1109	Test Code: SW8260		Units: µg/L		Analysis Date: 11/09/04 12:52		
Client ID:		Run ID:	VOA1_041109A	SeqNo:	570954	Prep Date:	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Sur: 1,2-Dichloroethane-d4	45.8	5.0	50	0	91.6	71-126	0	
Sur: 4-Bromofluorobenzene	50.03	5.0	50	0	100	74-125	0	
Sur: Dibromofluoromethane	47.15	5.0	50	0	94.3	73-126	0	
Surr: Toluene-d8	50.37	5.0	50	0	101	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24456 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1109			Test Code: SW8260	Units: µg/L		Analysis Date: 11/09/04 11:57		
Client ID:		Run ID:	VOA1_041109A	SeqNo:	570952	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	51.58	5.0	50	0	103	75.2-120		0	
1,1,2,2-Tetrachloroethane	50.27	5.0	50	0	101	72.4-121		0	
1,1,2-Trichloroethane	49.56	5.0	50	0	99.1	80-120		0	
1,1-Dichloroethane	47	5.0	50	0	94	76.9-120		0	
1,1-Dichloroethene	47.3	5.0	50	0	94.6	72.6-123		0	
1,2-Dichloroethane	49.07	5.0	50	0	98.1	80-120		0	
2-Butanone	105.3	10	100	0	105	69-131		0	
2-Chloroethyl vinyl ether	97.73	10	100	0	97.7	60-135		0	
2-Hexanone	108.3	10	100	0	108	55.6-126		0	
4-Methyl-2-pentanone	103.7	10	100	0	104	67.4-121		0	
Acetone	115.6	10	100	0	116	64.4-140		0	
Benzene	48.95	5.0	50	0	97.9	80-120		0	
Bromodichloromethane	51.01	5.0	50	0	102	80-120		0	
Bromoform	55.15	5.0	50	0	110	77.9-121		0	
Bromomethane	43.39	5.0	50	0	86.8	63.3-137		0	
Carbon disulfide	102.1	10	100	0	102	74.1-123		0	
Carbon tetrachloride	50.92	5.0	50	0	102	74.7-120		0	
Chlorobenzene	50.97	5.0	50	0	102	80-120		0	
Chloroethane	45.82	5.0	50	0	91.6	74.7-126		0	
Chloroform	48.35	5.0	50	0	96.7	80-120		0	
Chloromethane	47.74	5.0	50	0	95.5	64.5-132		0	
cis-1,3-Dichloropropene	52.6	5.0	50	0	105	80-120		0	
Dibromochloromethane	51.49	5.0	50	0	103	80-120		0	
Ethylbenzene	53.2	5.0	50	0	106	80-120		0	
m,p-Xylene	106.7	10	100	0	107	80-120		0	
Methylene chloride	48.27	10	50	0	96.5	76.2-120		0	
Styrene	52.93	5.0	50	0	106	80-120		0	
Tetrachloroethene	51.66	5.0	50	0	103	68.5-130		0	
Toluene	50.77	5.0	50	0	102	80-120		0	
trans-1,3-Dichloropropene	52.84	5.0	50	0	106	80-120		0	
Trichloroethene	51.21	5.0	50	0	102	78.9-120		0	
Vinyl acetate	97.69	10	100	0	97.7	62.4-133		0	
Vinyl chloride	49.36	2.0	50	0	98.7	72.7-128		0	
Xylenes, Total	159.4	15	150	0	106	80-120		0	
Surr: 1,2-Dichloroethane-d4	45.48	5.0	50	0	91	71-126		0	
Surr: 4-Bromofluorobenzene	50.1	5.0	50	0	100	74-125		0	
Surr: Dibromofluoromethane	46.75	5.0	50	0	93.5	73-126		0	
Surr: Toluene-d8	51.52	5.0	50	0	103	75-125		0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24456 InstrumentID: VOA1

MS	Sample ID: 0411036-29AMS			Test Code: SW8260	Units: µg/L		Analysis Date: 11/09/04 16:58			
Client ID:		Run ID:	VOA1_041109A	SeqNo:	570957	Prep Date:	DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	467.9	50	500	0	93.6	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	481.7	50	500	0	96.3	72.4-121	0	0		
1,1,2-Trichloroethane	466.7	50	500	0	93.3	80-120	0	0		
1,1-Dichloroethane	453.4	50	500	0	90.7	76.9-120	0	0		
1,1-Dichloroethene	447.7	50	500	0	89.5	72.6-123	0	0		
1,2-Dichloroethane	488	50	500	0	97.6	80-120	0	0		
2-Butanone	792.9	100	1000	0	79.3	69-131	0	0		
2-Chloroethyl vinyl ether	24.32	100	1000	0	2.43	60-135	0	0		JS
2-Hexanone	830	100	1000	0	83	55.6-126	0	0		
4-Methyl-2-pentanone	935.5	100	1000	0	93.5	67.4-121	0	0		
Acetone	588.9	100	1000	0	58.9	64.4-140	0	0		S
Benzene	471.9	50	500	0	94.4	80-120	0	0		
Bromodichloromethane	483.2	50	500	0	96.6	80-120	0	0		
Bromoform	536.5	50	500	0	107	77.9-121	0	0		
Bromomethane	263.8	50	500	0	52.8	63.3-137	0	0		S
Carbon disulfide	897.7	100	1000	0	89.8	74.1-123	0	0		
Carbon tetrachloride	456.5	50	500	0	91.3	74.7-120	0	0		
Chlorobenzene	482.4	50	500	0	96.5	80-120	0	0		
Chloroethane	418.7	50	500	0	83.7	74.7-126	0	0		
Chloroform	456.4	50	500	0	91.3	80-120	0	0		
Chloromethane	415.2	50	500	0	83	64.5-132	0	0		
cis-1,3-Dichloropropene	482.1	50	500	0	96.4	80-120	0	0		
Dibromochloromethane	500.8	50	500	0	100	80-120	0	0		
Ethylbenzene	479	50	500	0	95.8	80-120	0	0		
m,p-Xylene	935.6	100	1000	0	93.6	80-120	0	0		
Methylene chloride	467.1	100	500	0	93.4	76.2-120	0	0		
Styrene	510.9	50	500	0	102	80-120	0	0		
Tetrachloroethene	1274	50	500	999.6	54.9	68.5-130	0	0		S
Toluene	479.9	50	500	0	96	80-120	0	0		
trans-1,3-Dichloropropene	511.9	50	500	0	102	80-120	0	0		
Trichloroethene	459.2	50	500	0	91.8	78.9-120	0	0		
Vinyl acetate	1007	100	1000	0	101	62.4-133	0	0		
Vinyl chloride	447.8	20	500	0	89.6	72.7-128	0	0		
Xylenes, Total	1434	150	1500	0	95.6	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	453.3	50	500	0	90.7	71-126	0	0		
Surr: 4-Bromofluorobenzene	495.1	50	500	0	99	74-125	0	0		
Surr: Dibromofluoromethane	471.9	50	500	0	94.4	73-126	0	0		
Surr: Toluene-d8	489.5	50	500	0	97.9	75-125	0	0		

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24456 InstrumentID: VOA1

MSD	Sample ID: 0411036-29AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 11/09/04 17:25			
Client ID:		Run ID: VOA1_041109A	SeqNo: 570958	Prep Date:	DF: 10				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	476.4	50	500	0	95.3	75.2-120	467.9	1.8	20
1,1,2,2-Tetrachloroethane	501.4	50	500	0	100	72.4-121	481.7	4.02	20
1,1,2-Trichloroethane	480.9	50	500	0	96.2	80-120	466.7	2.99	20
1,1-Dichloroethane	468.4	50	500	0	93.7	76.9-120	453.4	3.26	20
1,1-Dichloroethene	473	50	500	0	94.6	72.6-123	447.7	5.5	20
1,2-Dichloroethane	506.8	50	500	0	101	80-120	488	3.77	20
2-Butanone	799.9	100	1000	0	80	69-131	792.9	0.875	20
2-Chloroethyl vinyl ether	10.19	100	1000	0	1.02	60-135	24.32	0	20 JS
2-Hexanone	848.9	100	1000	0	84.9	55.6-126	830	2.25	20
4-Methyl-2-pentanone	971.2	100	1000	0	97.1	67.4-121	935.5	3.75	20
Acetone	654.1	100	1000	0	65.4	64.4-140	588.9	10.5	20
Benzene	490.7	50	500	0	98.1	80-120	471.9	3.91	20
Bromodichloromethane	490.9	50	500	0	98.2	80-120	483.2	1.59	20
Bromoform	515.3	50	500	0	103	77.9-121	536.5	4.02	20
Bromomethane	334.9	50	500	0	67	63.3-137	263.8	23.7	20 R
Carbon disulfide	943.7	100	1000	0	94.4	74.1-123	897.7	4.99	20
Carbon tetrachloride	472.5	50	500	0	94.5	74.7-120	456.5	3.45	20
Chlorobenzene	476.9	50	500	0	95.4	80-120	482.4	1.16	20
Chloroethane	447.1	50	500	0	89.4	74.7-126	418.7	6.55	20
Chloroform	475.9	50	500	0	95.2	80-120	456.4	4.19	20
Chloromethane	437.9	50	500	0	87.6	64.5-132	415.2	5.3	20
cis-1,3-Dichloropropene	494.3	50	500	0	98.9	80-120	482.1	2.5	20
Dibromochloromethane	495.8	50	500	0	99.2	80-120	500.8	0.993	20
Ethylbenzene	469.3	50	500	0	93.9	80-120	479	2.05	20
m,p-Xylene	946.4	100	1000	0	94.6	80-120	935.6	1.15	20
Methylene chloride	495.7	100	500	0	99.1	76.2-120	467.1	5.94	20
Styrene	482.1	50	500	0	96.4	80-120	510.9	5.81	20
Tetrachloroethene	1247	50	500	999.6	49.5	68.5-130	1274	2.15	20 S
Toluene	473	50	500	0	94.6	80-120	479.9	1.43	20
trans-1,3-Dichloropropene	509.6	50	500	0	102	80-120	511.9	0.46	20
Trichloroethene	473.4	50	500	0	94.7	78.9-120	459.2	3.06	20
Vinyl acetate	1031	100	1000	0	103	62.4-133	1007	2.37	20
Vinyl chloride	462.7	20	500	0	92.5	72.7-128	447.8	3.28	20
Xylenes, Total	1426	150	1500	0	95	80-120	1434	0.598	20
Surr: 1,2-Dichloroethane-d4	468.3	50	500	0	93.7	71-126	453.3	3.24	20
Surr: 4-Bromofluorobenzene	476.2	50	500	0	95.2	74-125	495.1	3.88	20
Surr: Dibromofluoromethane	473.5	50	500	0	94.7	73-126	471.9	0.345	20
Surr: Toluene-d8	490.8	50	500	0	98.2	75-125	489.5	0.283	20

The following samples were analyzed in this batch:

0411050-01A	0411050-02A	0411050-03A
0411050-04A		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R24521** InstrumentID: **VOA1**

MBLK	Sample ID: VBLKW-1111			Test Code: SW8260	Units: µg/L		Analysis Date: 11/11/04 11:46			
Client ID:		Run ID: VOA1_041111A		SeqNo: 572384	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	47.3	5.0	50	0	94.6	71-126	0			
Surr: 4-Bromofluorobenzene	46.06	5.0	50	0	92.1	74-125	0			
Surr: Dibromofluoromethane	49.2	5.0	50	0	98.4	73-126	0			
Surr: Toluene-d8	49.87	5.0	50	0	99.7	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24521 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1111			Test Code: SW8260	Units: µg/L		Analysis Date: 11/11/04 10:51			
Client ID:		Run ID:	VOA1_041111A	SeqNo:	572383	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.61	5.0	50	0	103	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	49.82	5.0	50	0	99.6	72.4-121	0	0		
1,1,2-Trichloroethane	49.59	5.0	50	0	99.2	80-120	0	0		
1,1-Dichloroethane	48.43	5.0	50	0	96.9	76.9-120	0	0		
1,1-Dichloroethene	49.75	5.0	50	0	99.5	72.6-123	0	0		
1,2-Dichloroethane	48.65	5.0	50	0	97.3	80-120	0	0		
2-Butanone	101.8	10	100	0	102	69-131	0	0		
2-Chloroethyl vinyl ether	98.25	10	100	0	98.2	60-135	0	0		
2-Hexanone	105.6	10	100	0	106	55.6-126	0	0		
4-Methyl-2-pentanone	99.26	10	100	0	99.3	67.4-121	0	0		
Acetone	101.6	10	100	0	102	64.4-140	0	0		
Benzene	49.59	5.0	50	0	99.2	80-120	0	0		
Bromodichloromethane	51.26	5.0	50	0	103	80-120	0	0		
Bromoform	46.8	5.0	50	0	93.6	77.9-121	0	0		
Bromomethane	55.65	5.0	50	0	111	63.3-137	0	0		
Carbon disulfide	99.89	10	100	0	99.9	74.1-123	0	0		
Carbon tetrachloride	46.81	5.0	50	0	93.6	74.7-120	0	0		
Chlorobenzene	49.4	5.0	50	0	98.8	80-120	0	0		
Chloroethane	51.64	5.0	50	0	103	74.7-126	0	0		
Chloroform	48.85	5.0	50	0	97.7	80-120	0	0		
Chloromethane	51.05	5.0	50	0	102	64.5-132	0	0		
cis-1,3-Dichloropropene	52.33	5.0	50	0	105	80-120	0	0		
Dibromochloromethane	46.31	5.0	50	0	92.6	80-120	0	0		
Ethylbenzene	49.91	5.0	50	0	99.8	80-120	0	0		
m,p-Xylene	101.4	10	100	0	101	80-120	0	0		
Methylene chloride	47.78	10	50	0	95.6	76.2-120	0	0		
Styrene	51.88	5.0	50	0	104	80-120	0	0		
Tetrachloroethene	48.42	5.0	50	0	96.8	68.5-130	0	0		
Toluene	50.36	5.0	50	0	101	80-120	0	0		
trans-1,3-Dichloropropene	47.76	5.0	50	0	95.5	80-120	0	0		
Trichloroethene	47.71	5.0	50	0	95.4	78.9-120	0	0		
Vinyl acetate	114.3	10	100	0	114	62.4-133	0	0		
Vinyl chloride	51.72	2.0	50	0	103	72.7-128	0	0		
Xylenes, Total	152.9	15	150	0	102	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	45.69	5.0	50	0	91.4	71-126	0	0		
Surr: 4-Bromofluorobenzene	49.59	5.0	50	0	99.2	74-125	0	0		
Surr: Dibromofluoromethane	48.38	5.0	50	0	96.8	73-126	0	0		
Surr: Toluene-d8	49.2	5.0	50	0	98.4	75-125	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R24521** InstrumentID: **VOA1**

MS	Sample ID: 0411072-05AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 11/11/04 14:57			
Client ID:	Run ID: VOA1_041111A	SeqNo:	572386	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	51.05	5.0	50	0	102	75.2-120		0	
1,1,2,2-Tetrachloroethane	53.87	5.0	50	0	108	72.4-121		0	
1,1,2-Trichloroethane	51.43	5.0	50	0	103	80-120		0	
1,1-Dichloroethane	47.47	5.0	50	0	94.9	76.9-120		0	
1,1-Dichloroethene	50.59	5.0	50	0	101	72.6-123		0	
1,2-Dichloroethane	49.55	5.0	50	0	99.1	80-120		0	
2-Butanone	108.9	10	100	0	109	69-131		0	
2-Chloroethyl vinyl ether	17.79	10	100	0	17.8	60-135		0	S
2-Hexanone	103.9	10	100	0	104	55.6-126		0	
4-Methyl-2-pentanone	109.1	10	100	0	109	67.4-121		0	
Acetone	100.7	10	100	0	101	64.4-140		0	
Benzene	50.49	5.0	50	0	101	80-120		0	
Bromodichloromethane	51.52	5.0	50	0	103	80-120		0	
Bromoform	50.82	5.0	50	0	102	77.9-121		0	
Bromomethane	28.54	5.0	50	0	57.1	63.3-137		0	S
Carbon disulfide	104.2	10	100	0	104	74.1-123		0	
Carbon tetrachloride	46.65	5.0	50	0	93.3	74.7-120		0	
Chlorobenzene	49.14	5.0	50	0	98.3	80-120		0	
Chloroethane	50.84	5.0	50	0	102	74.7-126		0	
Chloroform	48.98	5.0	50	0	98	80-120		0	
Chloromethane	50.78	5.0	50	0	102	64.5-132		0	
cis-1,3-Dichloropropene	53.06	5.0	50	0	106	80-120		0	
Dibromochloromethane	48.8	5.0	50	0	97.6	80-120		0	
Ethylbenzene	51.46	5.0	50	0	103	80-120		0	
m,p-Xylene	104	10	100	0	104	80-120		0	
Methylene chloride	45.43	10	50	0	90.9	76.2-120		0	
Styrene	53.5	5.0	50	0	107	80-120		0	
Tetrachloroethene	49.48	5.0	50	0	99	68.5-130		0	
Toluene	51.04	5.0	50	0	102	80-120		0	
trans-1,3-Dichloropropene	48.47	5.0	50	0	96.9	80-120		0	
Trichloroethene	47.05	5.0	50	0	94.1	78.9-120		0	
Vinyl acetate	116.8	10	100	0	117	62.4-133		0	
Vinyl chloride	52.23	2.0	50	0	104	72.7-128		0	
Xylenes, Total	157.6	15	150	0	105	80-120		0	
Surr: 1,2-Dichloroethane-d4	46.46	5.0	50	0	92.9	71-126		0	
Surr: 4-Bromofluorobenzene	50.98	5.0	50	0	102	74-125		0	
Surr: Dibromofluoromethane	48.46	5.0	50	0	96.9	73-126		0	
Surr: Toluene-d8	49.94	5.0	50	0	99.9	75-125		0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R24521** InstrumentID: **VOA1**

MSD	Sample ID: 0411072-05AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 11/11/04 15:25			
Client ID:	Run ID: VOA1_041111A	SeqNo:	572387	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	51.27	5.0	50	0	103	75.2-120	51.05	0.441	20
1,1,2,2-Tetrachloroethane	55.49	5.0	50	0	111	72.4-121	53.87	2.96	20
1,1,2-Trichloroethane	49.87	5.0	50	0	99.7	80-120	51.43	3.07	20
1,1-Dichloroethane	49.34	5.0	50	0	98.7	76.9-120	47.47	3.88	20
1,1-Dichloroethene	50.81	5.0	50	0	102	72.6-123	50.59	0.441	20
1,2-Dichloroethane	50.25	5.0	50	0	100	80-120	49.55	1.39	20
2-Butanone	106.7	10	100	0	107	69-131	108.9	2.02	20
2-Chloroethyl vinyl ether	ND	10	100	0	0	60-135	17.79	0	20 S
2-Hexanone	105.1	10	100	0	105	55.6-126	103.9	1.16	20
4-Methyl-2-pentanone	106.4	10	100	0	106	67.4-121	109.1	2.43	20
Acetone	98.1	10	100	0	98.1	64.4-140	100.7	2.61	20
Benzene	51.93	5.0	50	0	104	80-120	50.49	2.81	20
Bromodichloromethane	52.98	5.0	50	0	106	80-120	51.52	2.78	20
Bromoform	49.84	5.0	50	0	99.7	77.9-121	50.82	1.95	20
Bromomethane	36.91	5.0	50	0	73.8	63.3-137	28.54	25.6	20 R
Carbon disulfide	106.5	10	100	0	107	74.1-123	104.2	2.22	20
Carbon tetrachloride	46.08	5.0	50	0	92.2	74.7-120	46.65	1.23	20
Chlorobenzene	48.38	5.0	50	0	96.8	80-120	49.14	1.57	20
Chloroethane	50.96	5.0	50	0	102	74.7-126	50.84	0.231	20
Chloroform	48.7	5.0	50	0	97.4	80-120	48.98	0.565	20
Chloromethane	50.61	5.0	50	0	101	64.5-132	50.78	0.335	20
cis-1,3-Dichloropropene	53.98	5.0	50	0	108	80-120	53.06	1.71	20
Dibromochloromethane	49.19	5.0	50	0	98.4	80-120	48.8	0.796	20
Ethylbenzene	52.27	5.0	50	0	105	80-120	51.46	1.56	20
m,p-Xylene	99.93	10	100	0	99.9	80-120	104	3.97	20
Methylene chloride	47.66	10	50	0	95.3	76.2-120	45.43	4.78	20
Styrene	51.99	5.0	50	0	104	80-120	53.5	2.87	20
Tetrachloroethene	50.02	5.0	50	0	100	68.5-130	49.48	1.09	20
Toluene	52.21	5.0	50	0	104	80-120	51.04	2.27	20
trans-1,3-Dichloropropene	50.68	5.0	50	0	101	80-120	48.47	4.47	20
Trichloroethene	49.63	5.0	50	0	99.3	78.9-120	47.05	5.36	20
Vinyl acetate	116.8	10	100	0	117	62.4-133	116.8	0.0193	20
Vinyl chloride	53.44	2.0	50	0	107	72.7-128	52.23	2.29	20
Xylenes, Total	151.8	15	150	0	101	80-120	157.6	3.72	20
Surr: 1,2-Dichloroethane-d4	45.48	5.0	50	0	91	71-126	46.46	2.14	20
Surr: 4-Bromofluorobenzene	50.26	5.0	50	0	101	74-125	50.98	1.41	20
Surr: Dibromofluoromethane	48.21	5.0	50	0	96.4	73-126	48.46	0.502	20
Surr: Toluene-d8	49.22	5.0	50	0	98.4	75-125	49.94	1.46	20

The following samples were analyzed in this batch:

0411050-05A	0411050-06A	0411050-07A
0411050-08A		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R24587** InstrumentID: **VOA1**

MBLK	Sample ID: VBLKW-1112			Test Code: SW8260	Units: µg/L		Analysis Date: 11/12/04 13:27			
Client ID:		Run ID: VOA1_041112A		SeqNo: 573890	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	45.85	5.0	50	0	91.7	71-126	0			
Surr: 4-Bromofluorobenzene	47.84	5.0	50	0	95.7	74-125	0			
Surr: Dibromofluoromethane	48.23	5.0	50	0	96.5	73-126	0			
Surr: Toluene-d8	49.18	5.0	50	0	98.4	75-125	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

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R - RPD outside accepted recovery limits

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24587 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1112	Test Code: SW8260		Units: µg/L		Analysis Date: 11/12/04 12:09			
Client ID:	Run ID: VOA1_041112A	SeqNo:	573889	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	50.34	5.0	50	0	101	75.2-120	0	0	
1,1,2,2-Tetrachloroethane	55.63	5.0	50	0	111	72.4-121	0	0	
1,1,2-Trichloroethane	47.39	5.0	50	0	94.8	80-120	0	0	
1,1-Dichloroethane	48.04	5.0	50	0	96.1	76.9-120	0	0	
1,1-Dichloroethene	48.44	5.0	50	0	96.9	72.6-123	0	0	
1,2-Dichloroethane	46.28	5.0	50	0	92.6	80-120	0	0	
2-Butanone	108.5	10	100	0	108	69-131	0	0	
2-Chloroethyl vinyl ether	94.19	10	100	0	94.2	60-135	0	0	
2-Hexanone	105.2	10	100	0	105	55.6-126	0	0	
4-Methyl-2-pentanone	100.5	10	100	0	100	67.4-121	0	0	
Acetone	109.7	10	100	-0-	110	64.4-140	0	0	
Benzene	49.28	5.0	50	0	98.6	80-120	0	0	
Bromodichloromethane	50.67	5.0	50	0	101	80-120	0	0	
Bromoform	46.24	5.0	50	0	92.5	77.9-121	0	0	
Bromomethane	46.02	5.0	50	0	92	63.3-137	0	0	
Carbon disulfide	101.3	10	100	0	101	74.1-123	0	0	
Carbon tetrachloride	43.13	5.0	50	0	86.3	74.7-120	0	0	
Chlorobenzene	47.99	5.0	50	0	96	80-120	0	0	
Chloroethane	50.66	5.0	50	0	101	74.7-126	0	0	
Chloroform	49.29	5.0	50	0	98.6	80-120	0	0	
Chloromethane	52.04	5.0	50	0	104	64.5-132	0	0	
cis-1,3-Dichloropropene	51.72	5.0	50	0	103	80-120	0	0	
Dibromochloromethane	44.46	5.0	50	0	88.9	80-120	0	0	
Ethylbenzene	48.59	5.0	50	0	97.2	80-120	0	0	
m,p-Xylene	100.5	10	100	0	101	80-120	0	0	
Methylene chloride	48.86	10	50	0	97.7	76.2-120	0	0	
Styrene	50.79	5.0	50	0	102	80-120	0	0	
Tetrachloroethene	45.11	5.0	50	0	90.2	68.5-130	0	0	
Toluene	47.71	5.0	50	0	95.4	80-120	0	0	
trans-1,3-Dichloropropene	46.19	5.0	50	0	92.4	80-120	0	0	
Trichloroethene	46.24	5.0	50	0	92.5	78.9-120	0	0	
Vinyl acetate	114.2	10	100	0	114	62.4-133	0	0	
Vinyl chloride	54.54	2.0	50	0	109	72.7-128	0	0	
Xylenes, Total	151.8	15	150	0	101	80-120	0	0	
Surr: 1,2-Dichloroethane-d4	45.14	5.0	50	0	90.3	71-126	0	0	
Surr: 4-Bromofluorobenzene	48.83	5.0	50	0	97.7	74-125	0	0	
Surr: Dibromofluoromethane	48.02	5.0	50	0	96	73-126	0	0	
Surr: Toluene-d8	48.31	5.0	50	0	96.6	75-125	0	0	

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24587 InstrumentID: VOA1

MS	Sample ID: 0411050-08AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 11/12/04 17:00			
Client ID:	TEL-4	Run ID:	VOA1_041112A	SeqNo:	573893	Prep Date:	DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	1304	120	1250	0	104	75.2-120	0		
1,1,2,2-Tetrachloroethane	1288	120	1250	0	103	72.4-121	0		
1,1,2-Trichloroethane	1282	120	1250	0	103	80-120	0		
1,1-Dichloroethane	1253	120	1250	0	100	76.9-120	0		
1,1-Dichloroethene	1284	120	1250	0	103	72.6-123	0		
1,2-Dichloroethane	1241	120	1250	0	99.2	80-120	0		
2-Butanone	2594	250	2500	52.59	102	69-131	0		
2-Chloroethyl vinyl ether	1671	250	2500	0	66.9	60-135	0		
2-Hexanone	2572	250	2500	0	103	55.6-126	0		
4-Methyl-2-pentanone	2659	250	2500	0	106	67.4-121	0		
Acetone	2743	250	2500	3559	-32.7	64.4-140	0		S
Benzene	1765	120	1250	531.5	98.7	80-120	0		
Bromodichloromethane	1301	120	1250	0	104	80-120	0		
Bromoform	1150	120	1250	0	92	77.9-121	0		
Bromomethane	642.1	120	1250	0	51.4	63.3-137	0		S
Carbon disulfide	2668	250	2500	0	107	74.1-123	0		
Carbon tetrachloride	1151	120	1250	0	92.1	74.7-120	0		
Chlorobenzene	1203	120	1250	0	96.2	80-120	0		
Chloroethane	1330	120	1250	0	106	74.7-126	0		
Chloroform	1270	120	1250	0	102	80-120	0		
Chloromethane	1272	120	1250	0	102	64.5-132	0		
cis-1,3-Dichloropropene	1326	120	1250	0	106	80-120	0		
Dibromochloromethane	1191	120	1250	0	95.2	80-120	0		
Ethylbenzene	1424	120	1250	101.5	106	80-120	0		
m,p-Xylene	2744	250	2500	211.5	101	80-120	0		
Methylene chloride	1249	250	1250	0	100	76.2-120	0		
Styrene	1270	120	1250	0	102	80-120	0		
Tetrachloroethene	1230	120	1250	0	98.4	68.5-130	0		
Toluene	1308	120	1250	0	105	80-120	0		
trans-1,3-Dichloropropene	1228	120	1250	0	98.3	80-120	0		
Trichloroethene	1197	120	1250	0	95.7	78.9-120	0		
Vinyl acetate	3025	250	2500	0	121	62.4-133	0		
Vinyl chloride	1319	50	1250	0	106	72.7-128	0		
Xylenes, Total	4021	380	3750	211.5	102	80-120	0		
Surr: 1,2-Dichloroethane-d4	1158	120	1250	0	92.6	71-126	0		
Surr: 4-Bromofluorobenzene	1253	120	1250	0	100	74-125	0		
Surr: Dibromofluoromethane	1224	120	1250	0	97.9	73-126	0		
Surr: Toluene-d8	1259	120	1250	0	101	75-125	0		

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24587	InstrumentID: VOA1	Test Code: SW8260				Units: µg/L		Analysis Date: 11/12/04 17:36		
MSD	Sample ID: 0411050-08AMSD									
Client ID: TEL-4	Run ID: VOA1_041112A	SeqNo: 573894			Prep Date:	DF: 25				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1293	120	1250	0	103	75.2-120	1304	0.866	20	
1,1,2,2-Tetrachloroethane	1320	120	1250	0	106	72.4-121	1288	2.51	20	
1,1,2-Trichloroethane	1299	120	1250	0	104	80-120	1282	1.36	20	
1,1-Dichloroethane	1281	120	1250	0	102	76.9-120	1253	2.23	20	
1,1-Dichloroethene	1273	120	1250	0	102	72.6-123	1284	0.866	20	
1,2-Dichloroethane	1234	120	1250	0	98.7	80-120	1241	0.53	20	
2-Butanone	2709	250	2500	52.59	106	69-131	2594	4.35	20	
2-Chloroethyl vinyl ether	1316	250	2500	0	52.6	60-135	1671	23.8	20	SR
2-Hexanone	2583	250	2500	0	103	55.6-126	2572	0.461	20	
4-Methyl-2-pentanone	2672	250	2500	0	107	67.4-121	2659	0.452	20	
Acetone	2543	250	2500	3559	-40.7	64.4-140	2743	7.56	20	S
Benzene	1762	120	1250	531.5	98.5	80-120	1765	0.177	20	
Bromodichloromethane	1328	120	1250	0	106	80-120	1301	2.02	20	
Bromoform	1196	120	1250	0	95.7	77.9-121	1150	3.91	20	
Bromomethane	699.3	120	1250	0	55.9	63.3-137	642.1	8.53	20	S
Carbon disulfide	2648	250	2500	0	106	74.1-123	2668	0.741	20	
Carbon tetrachloride	1158	120	1250	0	92.6	74.7-120	1151	0.594	20	
Chlorobenzene	1228	120	1250	0	98.2	80-120	1203	2.02	20	
Chloroethane	1356	120	1250	0	108	74.7-126	1330	1.92	20	
Chloroform	1228	120	1250	0	98.2	80-120	1270	3.4	20	
Chloromethane	1287	120	1250	0	103	64.5-132	1272	1.14	20	
cis-1,3-Dichloropropene	1332	120	1250	0	107	80-120	1326	0.459	20	
Dibromochloromethane	1165	120	1250	0	93.2	80-120	1191	2.18	20	
Ethylbenzene	1443	120	1250	101.5	107	80-120	1424	1.28	20	
m,p-Xylene	2815	250	2500	211.5	104	80-120	2744	2.56	20	
Methylene chloride	1245	250	1250	0	99.6	76.2-120	1249	0.359	20	
Styrene	1329	120	1250	0	106	80-120	1270	4.58	20	
Tetrachloroethene	1264	120	1250	0	101	68.5-130	1230	2.76	20	
Toluene	1297	120	1250	0	104	80-120	1308	0.887	20	
trans-1,3-Dichloropropene	1247	120	1250	0	99.8	80-120	1228	1.53	20	
Trichloroethene	1220	120	1250	0	97.6	78.9-120	1197	1.95	20	
Vinyl acetate	2988	250	2500	0	120	62.4-133	3025	1.24	20	
Vinyl chloride	1324	50	1250	0	106	72.7-128	1319	0.396	20	
Xylenes, Total	4124	380	3750	211.5	104	80-120	4021	2.54	20	
Surr: 1,2-Dichloroethane-d4	1116	120	1250	0	89.3	71-126	1158	3.73	20	
Surr: 4-Bromofluorobenzene	1257	120	1250	0	101	74-125	1253	0.327	20	
Surr: Dibromofluoromethane	1198	120	1250	0	95.8	73-126	1224	2.15	20	
Surr: Toluene-d8	1209	120	1250	0	96.7	75-125	1259	4.03	20	

The following samples were analyzed in this batch:

0411050-08A

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24541	InstrumentID: UV-2101PC								
MBLK	Sample ID: WBLKW1-111004	Test Code: E335.3 Units: mg/L Analysis Date: 11/12/04 0:00							
Client ID:	Run ID: UV-2101PC_041112B	SeqNo:	572880	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Cyanide	ND	0.020							
LCS	Sample ID: WLCSW1-111004	Test Code: E335.3 Units: mg/L Analysis Date: 11/12/04 0:00							
Client ID:	Run ID: UV-2101PC_041112B	SeqNo:	572881	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Cyanide	0.2018	0.020	0.2	0	101	80-120	0		
MS	Sample ID: 0411033-12BMS	Test Code: E335.3 Units: mg/L Analysis Date: 11/12/04 0:00							
Client ID:	Run ID: UV-2101PC_041112B	SeqNo:	572903	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Cyanide	0.1995	0.020	0.2	0.0034	98	75-125	0		
MSD	Sample ID: 0411033-12BMSD	Test Code: E335.3 Units: mg/L Analysis Date: 11/12/04 0:00							
Client ID:	Run ID: UV-2101PC_041112B	SeqNo:	572904	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Cyanide	0.1937	0.020	0.2	0.0034	95.2	75-125	0.1995	2.95	25
DUP	Sample ID: 0411033-12BDUP	Test Code: E335.3 Units: mg/L Analysis Date: 11/12/04 0:00							
Client ID:	Run ID: UV-2101PC_041112B	SeqNo:	572902	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Cyanide	0.0039	0.020	0	0	0	0-0	0.0034	0	20 J

The following samples were analyzed in this batch:

0411050-01D	0411050-02D	0411050-03D
0411050-04D	0411050-05D	0411050-06D
0411050-07D	0411050-08D	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24554 InstrumentID: WetChem

MBLK Sample ID: WBLKW1-111404		Test Code: E310.1		Units: mg/L		Analysis Date: 11/14/04 0:00		
Client ID: Run ID: WETCHEM_041114C SeqNo: 573118				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0						
Alkalinity, Carbonate (As CaCO3)	ND	5.0						
Alkalinity, Hydroxide (As CaCO3)	ND	5.0						
Alkalinity, Total (As CaCO3)	ND	5.0						

LCS Sample ID: WLCSW1-111404		Test Code: E310.1		Units: mg/L		Analysis Date: 11/14/04 0:00		
Client ID: Run ID: WETCHEM_041114C SeqNo: 573119				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit
Alkalinity, Bicarbonate (As CaCO3)	931.6	5.0	0	0.9807	0	0-0	0	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	
Alkalinity, Total (As CaCO3)	931.6	5.0	1000	0	93.2	80-120	0	

DUP Sample ID: 0411009-02DDUP		Test Code: E310.1		Units: mg/L		Analysis Date: 11/14/04 0:00		
Client ID: Run ID: WETCHEM_041114C SeqNo: 573134				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit
Alkalinity, Bicarbonate (As CaCO3)	475.6	5.0	0	0	0	0-0	475.6	0
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	20
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	20
Alkalinity, Total (As CaCO3)	475.6	5.0	0	0	0	0-0	475.6	0

The following samples were analyzed in this batch:

0411050-01B	0411050-02B	0411050-03B
0411050-04B	0411050-05B	0411050-06B
0411050-07B	0411050-08B	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24646 InstrumentID: IC201

MBLK Sample ID: WBLKW1-111704 Test Code: E300 Units: mg/L Analysis Date: 11/17/04 11:22

Client ID: Run ID: IC201_041117A SeqNo: 575427 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Surr: Dichloroacetic acid (surr)	5.11	0.10	5	0	102	80-120		0		

LCS Sample ID: WLCSW1-111704 Test Code: E300 Units: mg/L Analysis Date: 11/17/04 11:51

Client ID: Run ID: IC201_041117A SeqNo: 575428 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.09	0.50	10	0	90.9	80-120		0		
Fluoride	1.83	0.10	2	0	91.5	80-120		0		
Sulfate	9.88	1.0	10	0	98.8	80-120		0		
Surr: Dichloroacetic acid (surr)	5.1	0.10	5	0	102	80-120		0		

LCSD Sample ID: WLCSDW1-11170 Test Code: E300 Units: mg/L Analysis Date: 11/17/04 12:19

Client ID: Run ID: IC201_041117A SeqNo: 575429 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.18	0.50	10	0	91.8	80-120	9.09	0.985	20	
Fluoride	1.99	0.10	2	0	99.5	80-120	1.83	8.38	20	
Sulfate	9.92	1.0	10	0	99.2	80-120	9.88	0.404	20	
Surr: Dichloroacetic acid (surr)	5.28	0.10	5	0	106	80-120	5.1	3.47	20	

MS Sample ID: 0411047-01CMS Test Code: E300 Units: mg/L Analysis Date: 11/17/04 13:45

Client ID: Run ID: IC201_041117A SeqNo: 575432 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	169.6	0.50	10	159.6	99.3	75-125	0			EO
Fluoride	2.43	0.10	2	0.64	89.5	75-125	0			
Sulfate	56.62	1.0	10	44.77	118	75-125	0			EO
Surr: Dichloroacetic acid (surr)	5.15	0.10	5	0	103	80-120	0			

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24646 Instrument ID: IC201

MSD		Sample ID: 0411047-01CMSD		Test Code: E300		Units: mg/L		Analysis Date: 11/17/04 14:14			
Client ID:		Run ID: IC201_041117A		SeqNo: 575433		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		170.1	0.50	10	159.6	104	75-125	169.6	0.289	20	EO
Fluoride		2.43	0.10	2	0.64	89.5	75-125	2.43	0	20	
Sulfate		56.51	1.0	10	44.77	117	75-125	56.62	0.194	20	EO
Surr: Dichloroacetic acid (surr)		5.18	0.10	5	0	104	80-120	5.15	0.581	20	
DUP	Sample ID: 0411047-01CDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/17/04 15:11				
Client ID:	Run ID: IC201_041117A		SeqNo: 575435		Prep Date:		DF: 5				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		131.8	2.5	0	0	0	0-0	131.6	0.152	20	
Fluoride		0.6	0.50	0	0	0	0-0	0.6	0	20	
Sulfate		39.25	5.0	0	0	0	0-0	38.75	1.28	20	
Surr: Dichloroacetic acid (surr)		25.8	0.50	25	0	103	80-120	26.45	2.49	20	
DUP	Sample ID: 0411050-01BDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/17/04 21:50				
Client ID:	Run ID: IC201_041117A		SeqNo: 575688		Prep Date:		DF: 100				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		217	50	0	0	0	0-0	219	0.917	20	
Fluoride		ND	10	0	0	0	0-0	0	0	20	
Sulfate		1945	100	0	0	0	0-0	1944	0.0514	20	
Surr: Dichloroacetic acid (surr)		539	10	500	0	108	80-120	546	1.29	20	
DUP	Sample ID: 0411209-01ADUP		Test Code: E300		Units: mg/L		Analysis Date: 11/18/04 12:05				
Client ID:	Run ID: IC201_041117A		SeqNo: 576056		Prep Date:		DF: 10				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		ND	5.0	0	0	0	0-0	1.6	0	20	
Fluoride		ND	1.0	0	0	0	0-0	0	0	20	
Sulfate		ND	10	0	0	0	0-0	5.1	0	20	
Surr: Dichloroacetic acid (surr)		57.1	1.0	50	0	114	80-120	56.4	1.23	20	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24646 InstrumentID: IC201

DUP	Sample ID: 0411210-07CDUP	Test Code: E300			Units: mg/L		Analysis Date: 11/18/04 3:32			
Client ID:	Run ID: IC201_041117A	SeqNo: 576062		Prep Date:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	124.9	0.50	0	0	0	0-0	124.9	0.016	20	E
Fluoride	0.66	0.10	0	0	0	0-0	0.66	0	20	
Sulfate	197.6	1.0	0	0	0	0-0	197.6	0.00506	20	E
Surr: Dichloroacetic acid (surr)	5.64	0.10	5	0	113	80-120	5.37	4.9	20	

DUP	Sample ID: 0411210-02CDUP	Test Code: E300			Units: mg/L		Analysis Date: 11/18/04 9:43			
Client ID:	Run ID: IC201_041117A	SeqNo: 576072		Prep Date:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	94.55	0.50	0	0	0	0-0	92.16	2.56	20	E
Fluoride	0.23	0.10	0	0	0	0-0	0.2	14	20	
Sulfate	150.7	1.0	0	0	0	0-0	150.9	0.0928	20	E
Surr: Dichloroacetic acid (surr)	5.41	0.10	5	0	108	80-120	5.48	1.29	20	

The following samples were analyzed in this batch:

0411050-01B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24718 InstrumentID: IC201

MBLK Sample ID: WBLKW1-111804 Test Code: E300 Units: mg/L Analysis Date: 11/18/04 13:31

Client ID: Run ID: IC201_041118B SeqNo: 577005 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Surr: Dichloroacetic acid (surr)	5.21	0.10	5	0	104	80-120	0			

LCS Sample ID: WLCSW1-111804 Test Code: E300 Units: mg/L Analysis Date: 11/18/04 13:59

Client ID: Run ID: IC201_041118B SeqNo: 577007 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.12	0.50	10	0	91.2	80-120	0			
Fluoride	1.93	0.10	2	0	96.5	80-120	0			
Sulfate	9.78	1.0	10	0	97.8	80-120	0			
Surr: Dichloroacetic acid (surr)	5.34	0.10	5	0	107	80-120	0			

LCSD Sample ID: WLCSDW1-11180 Test Code: E300 Units: mg/L Analysis Date: 11/18/04 14:28

Client ID: Run ID: IC201_041118B SeqNo: 577010 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.19	0.50	10	0	91.9	80-120	9.12	0.765	20	
Fluoride	1.92	0.10	2	0	96	80-120	1.93	0.519	20	
Sulfate	9.85	1.0	10	0	98.5	80-120	9.78	0.713	20	
Surr: Dichloroacetic acid (surr)	5.24	0.10	5	0	105	80-120	5.34	1.89	20	

MS Sample ID: 0411230-03JMS Test Code: E300 Units: mg/L Analysis Date: 11/19/04 9:28

Client ID: Run ID: IC201_041118B SeqNo: 577051 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.95	0.50	10	24.18	118	75-125	0			
Fluoride	2.01	0.10	2	0.1	95.5	75-125	0			
Sulfate	126.2	1.0	10	114.6	117	75-125	0			EO
Surr: Dichloroacetic acid (surr)	5.4	0.10	5	0	108	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24718 InstrumentID: IC201

MSD	Sample ID: 0411230-03JMSD		Test Code: E300		Units: mg/L		Analysis Date: 11/19/04 9:57			
Client ID:	Run ID: IC201_041118B		SeqNo: 577053		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	35.69	0.50	10	24.18	115	75-125	35.95	0.726	20	
Fluoride	2.02	0.10	2	0.1	96	75-125	2.01	0.496	20	
Sulfate	125.8	1.0	10	114.6	113	75-125	126.2	0.325	20	EO
Surr: Dichloroacetic acid (surr)	5.37	0.10	5	0	107	80-120	5.4	0.557	20	

DUP	Sample ID: 0411053-03FDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/18/04 17:47			
Client ID:	Run ID: IC201_041118B		SeqNo: 577015		Prep Date:		DF: 200			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2064	100	0	0	0	0-0	2062	0.0969	20	
Fluoride	ND	20	0	0	0	0-0	0	0	20	
Sulfate	5860	200	0	0	0	0-0	5856	0.0683	20	
Surr: Dichloroacetic acid (surr)	1076	20	1000	0	108	80-120	1088	1.11	20	

DUP	Sample ID: 0411230-03JDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/19/04 10:54			
Client ID:	Run ID: IC201_041118B		SeqNo: 577032		Prep Date:		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.7	2.5	0	0	0	0-0	19.7	0	20	
Fluoride	ND	0.50	0	0	0	0-0	0	0	20	
Sulfate	92.6	5.0	0	0	0	0-0	93	0.431	20	
Surr: Dichloroacetic acid (surr)	27.8	0.50	25	0	111	80-120	27.85	0.18	20	

DUP	Sample ID: 0411050-06BDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/19/04 2:49			
Client ID:	Run ID: IC201_041118B		SeqNo: 577034		Prep Date:		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	150	50	0	0	0	0-0	146	2.7	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1819	100	0	0	0	0-0	1829	0.548	20	
Surr: Dichloroacetic acid (surr)	567	10	500	0	113	80-120	560	1.24	20	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411050
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R24718** InstrumentID: **IC201**

DUP	Sample ID: 0411230-03JDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/19/04 9:00			
Client ID:	Run ID: IC201_041118B		SeqNo: 577049		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	24.75	0.50	0	0	0	0-0	24.18	2.33	20	
Fluoride	0.09	0.10	0	0	0	0-0	0.1	0	20	J
Sulfate	114.8	1.0	0	0	0	0-0	114.6	0.201	20	E
Surr: Dichloroacetic acid (surr)	5.25	0.10	5	0	105	80-120	5.17	1.54	20	

DUP	Sample ID: 0411230-03JDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/19/04 10:54			
Client ID:	Run ID: IC201_041118B		SeqNo: 577075		Prep Date:		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.7	2.5	0	0	0	0-0	19.7	0	20	
Fluoride	ND	0.50	0	0	0	0-0	0	0	20	
Sulfate	92.6	5.0	0	0	0	0-0	93	0.431	20	
Surr: Dichloroacetic acid (surr)	27.8	0.50	25	0	111	80-120	27.85	0.18	20	

DUP	Sample ID: 0411050-05BDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/19/04 15:39			
Client ID:	Run ID: IC201_041118B		SeqNo: 577269		Prep Date:		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	379.8	5.0	0	0	0	0-0	377.4	0.634	20	
Fluoride	0.4	1.0	0	0	0	0-0	0.5	0	20	J
Sulfate	137.6	10	0	0	0	0-0	138.6	0.724	20	
Surr: Dichloroacetic acid (surr)	52.9	1.0	50	0	106	80-120	50.6	4.44	20	

The following samples were analyzed in this batch:

0411050-02B	0411050-03B	0411050-04B
0411050-05B	0411050-06B	0411050-07B
0411050-08B		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

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E - Value above quantitation range



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Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	Project Name	NCL / TEL	A	NCL / TEL													
Work Order	Project Number		B														
Company Name	Bill To Company		C														
Send Report To	Invoice Attn.		D														
Address	Address		E														
City/State/Zip	City/State/Zip		F														
Phone	Phone		G														
Fax	Fax		H														
e-Mail Address			J														
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	NCL-49	11/4/04	0815	C		8	X										
2	NCL-32		0845														
3	NCL-44		0910				X										
4	NCL-33		1000				X										
5	NCL-34		1015				X										
6	NCL-60		1045				X										
7	NCL-59		1330				X										
8	TEL-4		1400				X										
9																	
10																	
Sampler(s): Please Print & Sign <i>Jeff Byrd</i>		Shipment Method:	Required Turnaround Time (Check Box)												Results Due Date:		
		Fed Ex	<input type="checkbox"/> 0 Wk Days	<input type="checkbox"/> 3 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 1 Wk Day	<input type="checkbox"/> Other _____										
Relinquished by: <i>Jeff Byrd</i>		Date: 11/4	Time: 1615	Received by:	Date: 11/5		Time: 0800	e-Lab Cooler ID:	Cooler Temp	QC Package: (Check Box Below)							
Logged by (Laboratory): <i>Jeff Byrd</i>		Date:	Time:	Received by (Laboratory): <i>Jeff Byrd</i>	Date: 11/5		Time: 0800	Checked by (Laboratory): <i>Jeff Byrd</i>	Temp	<input type="checkbox"/> Level II: Standard QC	<input type="checkbox"/> Level III: Raw Data	<input type="checkbox"/> TRRP Level IV					
Preservative Key: 1-HCl		2-HNO ₃	3-H ₂ SC ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C		<input type="checkbox"/> Level IV: SW846 Methods/CLP like	<input type="checkbox"/> Other: _____						

Note: Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.

e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 11/5/2004 8:30:00 AM

Work Order Number 0411050

Received by: RSZ

Checklist completed by RJM

11/5/04

Reviewed by MP

11/8/04

Signature

Date

Initials

Date

Matrix: W

Carrier name: FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 2.7c, 3.1c, 3.4c 002

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

Adjusted? Checked by RJM

Login Notes: Received one set of trip blanks (one broken) not on COC; logged in without analysis.

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____

Date contacted: _____

Person contacted _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action: _____



e-Lab Analytical, Inc.

10450 Stanciff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

November 19, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0411079**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 3 samples on 11/8/2004 8:51:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 35.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0411079

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0411079-01	TEL-3	Liquid		11/5/2004 10:00	11/8/2004 08:51	<input type="checkbox"/>
0411079-02	TEL-2	Liquid		11/5/2004 10:30	11/8/2004 08:51	<input type="checkbox"/>
0411079-03	TEL-1	Liquid		11/5/2004 11:00	11/8/2004 08:51	<input type="checkbox"/>

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0411079

Case Narrative

Batch 11059 Metals MS/MSD was an unrelated sample.

Batch 11101 Semivolatiles MS/MSD was an unrelated sample.

Batch R24587 Volatiles MS/MSD was an unrelated sample.

Batch R24438 Anions MS/MSD was an unrelated sample.

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-01

Client Sample ID: TEL-3
Collection Date: 11/5/2004 10:00:00 AM
Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	Prep Date: 11/16/2004 Analyst: JCJ 11/16/2004 4:32:23 PM
ICP METALS, TOTAL				SW6020		Prep Date: 11/10/2004 Analyst: ALR
Aluminum	ND	0.0100		mg/L	1	11/17/2004 7:00:00 PM
Arsenic	ND	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Barium	0.0117	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Beryllium	ND	0.00200		mg/L	1	11/17/2004 7:00:00 PM
Boron	0.493	0.0200		mg/L	1	11/17/2004 7:00:00 PM
Cadmium	ND	0.00100		mg/L	1	11/17/2004 7:00:00 PM
Calcium	580	25.0		mg/L	50	11/13/2004 2:01:00 PM
Chromium	ND	0.00200		mg/L	1	11/17/2004 7:00:00 PM
Cobalt	ND	0.00200		mg/L	1	11/17/2004 7:00:00 PM
Copper	ND	0.00200		mg/L	1	11/17/2004 7:00:00 PM
Iron	1.49	0.200		mg/L	1	11/17/2004 7:00:00 PM
Lead	ND	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Magnesium	193	2.00		mg/L	10	11/13/2004 2:14:00 PM
Manganese	0.00527	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Molybdenum	ND	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Nickel	ND	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Potassium	2.69	0.200		mg/L	1	11/17/2004 7:00:00 PM
Selenium	ND	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Silver	ND	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Sodium	72.5	2.00		mg/L	10	11/13/2004 2:14:00 PM
Vanadium	ND	0.00500		mg/L	1	11/17/2004 7:00:00 PM
Zinc	ND	0.00500		mg/L	1	11/17/2004 7:00:00 PM
SEMIVOLATILE ORGANICS BY GC/MS				SW8270		Prep Date: 11/12/2004 Analyst: HV
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/17/2004 6:02:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/17/2004 6:02:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
2-Methylphenol	ND	10		µg/L	1	11/17/2004 6:02:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:02:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/17/2004 6:02:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/17/2004 6:02:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:02:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:02:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Acenaphthene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Acenaphthylene	ND	10		µg/L	1	11/17/2004 6:02:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-01

Client Sample ID: TEL-3
Collection Date: 11/5/2004 10:00:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Anthracene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Benzidine	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Hexachloroethane	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Isophorone	ND	10		µg/L	1	11/17/2004 6:02:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/17/2004 6:02:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/17/2004 6:02:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Naphthalene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Nitrobenzene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Phenanthrene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Phenol	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Pyrene	ND	10		µg/L	1	11/17/2004 6:02:00 PM
Surr: 2,4,6-Tribromophenol	93.8	39-153		%REC	1	11/17/2004 6:02:00 PM
Surr: 2-Fluorobiphenyl	80.8	40-147		%REC	1	11/17/2004 6:02:00 PM
Surr: 2-Fluorophenol	38.8	21-110		%REC	1	11/17/2004 6:02:00 PM
Surr: 4-Terphenyl-d14	76.3	39-141		%REC	1	11/17/2004 6:02:00 PM
Surr: Nitrobenzene-d5	83.0	37-140		%REC	1	11/17/2004 6:02:00 PM
Surr: Phenol-d6	24.1	11-100		%REC	1	11/17/2004 6:02:00 PM

VOLATILES BY GC/MS

		SW8260	Analyst: RKG
1,1,1-Trichloroethane	ND	5.0	µg/L
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L
1,1,2-Trichloroethane	ND	5.0	µg/L
1,1-Dichloroethane	ND	5.0	µg/L
1,1-Dichloroethene	ND	5.0	µg/L
1,2-Dichloroethane	ND	5.0	µg/L
2-Butanone	ND	10	µg/L
2-Chloroethyl vinyl ether	ND	10	µg/L
2-Hexanone	ND	10	µg/L
4-Methyl-2-pentanone	ND	10	µg/L
Acetone	ND	10	µg/L
Benzene	78	5.0	µg/L
Bromodichloromethane	ND	5.0	µg/L
Bromoform	ND	5.0	µg/L
Bromomethane	ND	5.0	µg/L
Carbon disulfide	ND	10	µg/L
Carbon tetrachloride	ND	5.0	µg/L

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-01

Client Sample ID: TEL-3
Collection Date: 11/5/2004 10:00:00 AM
Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Chloroethane	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Chloroform	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Chloromethane	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Ethylbenzene	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
m,p-Xylene	46	10		µg/L	1	11/12/2004 9:40:00 PM
Methylene chloride	ND	10		µg/L	1	11/12/2004 9:40:00 PM
Styrene	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Toluene	6.6	5.0		µg/L	1	11/12/2004 9:40:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/12/2004 9:40:00 PM
Vinyl acetate	ND	10		µg/L	1	11/12/2004 9:40:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/12/2004 9:40:00 PM
Xylenes, Total	50	15		µg/L	1	11/12/2004 9:40:00 PM
Surr: 1,2-Dichloroethane-d4	92.3	71-126		%REC	1	11/12/2004 9:40:00 PM
Surr: 4-Bromofluorobenzene	96.6	74-125		%REC	1	11/12/2004 9:40:00 PM
Surr: Dibromofluoromethane	96.1	73-126		%REC	1	11/12/2004 9:40:00 PM
Surr: Toluene-d8	97.2	75-125		%REC	1	11/12/2004 9:40:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	98.7	2.50	mg/L	5
Fluoride	3.23	0.100	mg/L	1
Sulfate	1,730	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	113	80-120	%REC	100

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-02

Client Sample ID: TEL-2
Collection Date: 11/5/2004 10:30:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	11/16/2004 4:33:55 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	11/17/2004 7:04:00 PM
Arsenic	0.0116	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Barium	0.120	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Beryllium	ND	0.00200		mg/L	1	11/17/2004 7:04:00 PM
Boron	0.584	0.0200		mg/L	1	11/17/2004 7:04:00 PM
Cadmium	ND	0.00100		mg/L	1	11/17/2004 7:04:00 PM
Calcium	155	5.00		mg/L	10	11/13/2004 2:33:00 PM
Chromium	ND	0.00200		mg/L	1	11/17/2004 7:04:00 PM
Cobalt	ND	0.00200		mg/L	1	11/17/2004 7:04:00 PM
Copper	ND	0.00200		mg/L	1	11/17/2004 7:04:00 PM
Iron	0.574	0.200		mg/L	1	11/17/2004 7:04:00 PM
Lead	ND	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Magnesium	162	2.00		mg/L	10	11/13/2004 2:33:00 PM
Manganese	0.0306	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Molybdenum	ND	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Nickel	ND	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Potassium	0.800	0.200		mg/L	1	11/17/2004 7:04:00 PM
Selenium	ND	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Silver	ND	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Sodium	379	10.0		mg/L	50	11/13/2004 2:05:00 PM
Vanadium	ND	0.00500		mg/L	1	11/17/2004 7:04:00 PM
Zinc	ND	0.00500		mg/L	1	11/17/2004 7:04:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/17/2004 6:30:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/17/2004 6:30:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/17/2004 6:30:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/17/2004 6:30:00 PM
2-Methylphenol	ND	10		µg/L	1	11/17/2004 6:30:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:30:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/17/2004 6:30:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/17/2004 6:30:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:30:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:30:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/17/2004 6:30:00 PM
Acenaphthene	ND	10		µg/L	1	11/17/2004 6:30:00 PM
Acenaphthylene	ND	10		µg/L	1	11/17/2004 6:30:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-02

Client Sample ID: TEL-2
Collection Date: 11/5/2004 10:30:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
Aniline	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Anthracene	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Benz(a)anthracene	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Benzidine	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Hexachloroethane	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Indeno(1,2,3-cd)pyrene	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Isophorone	ND	10	µg/L	1	11/17/2004 6:30:00 PM
N-Nitrosodi-n-propylamine	ND	10	µg/L	1	11/17/2004 6:30:00 PM
N-Nitrosodimethylamine	ND	10	µg/L	1	11/17/2004 6:30:00 PM
N-Nitrosodiphenylamine	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Naphthalene	17	10	µg/L	1	11/17/2004 6:30:00 PM
Nitrobenzene	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Pentachlorophenol	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Phenanthrene	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Phenol	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Pyrene	ND	10	µg/L	1	11/17/2004 6:30:00 PM
Surr: 2,4,6-Tribromophenol	97.7	39-153	%REC	1	11/17/2004 6:30:00 PM
Surr: 2-Fluorobiphenyl	84.5	40-147	%REC	1	11/17/2004 6:30:00 PM
Surr: 2-Fluorophenol	40.2	21-110	%REC	1	11/17/2004 6:30:00 PM
Surr: 4-Terphenyl-d14	76.4	39-141	%REC	1	11/17/2004 6:30:00 PM
Surr: Nitrobenzene-d5	82.5	37-140	%REC	1	11/17/2004 6:30:00 PM
Surr: Phenol-d6	24.3	11-100	%REC	1	11/17/2004 6:30:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: RKG
1,1,1-Trichloroethane	ND	5.0	µg/L	11/12/2004 10:07:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	11/12/2004 10:07:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	11/12/2004 10:07:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	11/12/2004 10:07:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	11/12/2004 10:07:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	11/12/2004 10:07:00 PM
2-Butanone	ND	10	µg/L	11/12/2004 10:07:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	11/12/2004 10:07:00 PM
2-Hexanone	ND	10	µg/L	11/12/2004 10:07:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	11/12/2004 10:07:00 PM
Acetone	ND	10	µg/L	11/12/2004 10:07:00 PM
Benzene	1,500	120	µg/L	25
Bromodichloromethane	ND	5.0	µg/L	11/12/2004 10:07:00 PM
Bromoform	ND	5.0	µg/L	11/12/2004 10:07:00 PM
Bromomethane	ND	5.0	µg/L	11/12/2004 10:07:00 PM
Carbon disulfide	ND	10	µg/L	11/12/2004 10:07:00 PM
Carbon tetrachloride	ND	5.0	µg/L	11/12/2004 10:07:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-02

Client Sample ID: TEL-2
Collection Date: 11/5/2004 10:30:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Chloroethane	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Chloroform	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Chloromethane	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Ethylbenzene	39	5.0		µg/L	1	11/12/2004 10:07:00 PM
m,p-Xylene	220	10		µg/L	1	11/12/2004 10:07:00 PM
Methylene chloride	ND	10		µg/L	1	11/12/2004 10:07:00 PM
Styrene	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Toluene	96	5.0		µg/L	1	11/12/2004 10:07:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/12/2004 10:07:00 PM
Vinyl acetate	ND	10		µg/L	1	11/12/2004 10:07:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/12/2004 10:07:00 PM
Xylenes, Total	250	15		µg/L	1	11/12/2004 10:07:00 PM
Surr: 1,2-Dichloroethane-d4	95.8	71-126		%REC	25	11/12/2004 8:45:00 PM
Surr: 1,2-Dichloroethane-d4	89.7	71-126		%REC	1	11/12/2004 10:07:00 PM
Surr: 4-Bromofluorobenzene	98.0	74-125		%REC	1	11/12/2004 10:07:00 PM
Surr: 4-Bromofluorobenzene	97.7	74-125		%REC	25	11/12/2004 8:45:00 PM
Surr: Dibromofluoromethane	101	73-126		%REC	25	11/12/2004 8:45:00 PM
Surr: Dibromofluoromethane	96.4	73-126		%REC	1	11/12/2004 10:07:00 PM
Surr: Toluene-d8	97.3	75-125		%REC	25	11/12/2004 8:45:00 PM
Surr: Toluene-d8	99.9	75-125		%REC	1	11/12/2004 10:07:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	242	5.00		mg/L	10	11/10/2004 10:06:00 AM
Fluoride	1.09	0.100		mg/L	1	11/10/2004 9:38:00 AM
Sulfate	842	20.0		mg/L	20	11/10/2004 10:35:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	11/10/2004 9:38:00 AM
Surr: Dichloroacetic acid (surr)	101	80-120		%REC	10	11/10/2004 10:06:00 AM
Surr: Dichloroacetic acid (surr)	104	80-120		%REC	20	11/10/2004 10:35:00 AM
Surr: Dichloroacetic acid (surr)	97.0	80-120		%REC	1	11/10/2004 9:38:00 AM
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	11/15/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-03

Client Sample ID: TEL-1
Collection Date: 11/5/2004 11:00:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	11/16/2004 4:38:34 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	11/17/2004 2:51:00 AM
Arsenic	ND	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Barium	0.0130	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Beryllium	ND	0.00200		mg/L	1	11/17/2004 2:51:00 AM
Boron	0.627	0.0200		mg/L	1	11/17/2004 2:51:00 AM
Cadmium	ND	0.00100		mg/L	1	11/17/2004 2:51:00 AM
Calcium	310	25.0		mg/L	50	11/13/2004 2:10:00 PM
Chromium	ND	0.00200		mg/L	1	11/17/2004 2:51:00 AM
Cobalt	ND	0.00200		mg/L	1	11/17/2004 2:51:00 AM
Copper	ND	0.00200		mg/L	1	11/17/2004 2:51:00 AM
Iron	1.42	0.200		mg/L	1	11/17/2004 2:51:00 AM
Lead	ND	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Magnesium	102	2.00		mg/L	10	11/13/2004 2:37:00 PM
Manganese	0.0893	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Molybdenum	ND	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Nickel	0.00571	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Potassium	0.864	0.200		mg/L	1	11/17/2004 2:51:00 AM
Selenium	ND	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Silver	ND	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Sodium	437	10.0		mg/L	50	11/13/2004 2:10:00 PM
Vanadium	ND	0.00500		mg/L	1	11/17/2004 2:51:00 AM
Zinc	ND	0.00500		mg/L	1	11/17/2004 2:51:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	11/17/2004 6:57:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	11/17/2004 6:57:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
2-Methylphenol	ND	10		µg/L	1	11/17/2004 6:57:00 PM
2-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:57:00 PM
2-Nitrophenol	ND	10		µg/L	1	11/17/2004 6:57:00 PM
3&4-Methylphenol	ND	10		µg/L	1	11/17/2004 6:57:00 PM
3-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:57:00 PM
4-Nitroaniline	ND	10		µg/L	1	11/17/2004 6:57:00 PM
4-Nitrophenol	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Acenaphthene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Acenaphthylene	ND	10		µg/L	1	11/17/2004 6:57:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-03

Client Sample ID: TEL-1
Collection Date: 11/5/2004 11:00:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Anthracene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Benz(a)anthracene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Benzidine	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Hexachloroethane	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Isophorone	ND	10		µg/L	1	11/17/2004 6:57:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	11/17/2004 6:57:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	11/17/2004 6:57:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Naphthalene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Nitrobenzene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Pentachlorophenol	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Phenanthrene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Phenol	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Pyrene	ND	10		µg/L	1	11/17/2004 6:57:00 PM
Surr: 2,4,6-Tribromophenol	88.1	39-153		%REC	1	11/17/2004 6:57:00 PM
Surr: 2-Fluorobiphenyl	80.4	40-147		%REC	1	11/17/2004 6:57:00 PM
Surr: 2-Fluorophenol	34.7	21-110		%REC	1	11/17/2004 6:57:00 PM
Surr: 4-Terphenyl-d14	70.7	39-141		%REC	1	11/17/2004 6:57:00 PM
Surr: Nitrobenzene-d5	81.5	37-140		%REC	1	11/17/2004 6:57:00 PM
Surr: Phenol-d6	21.2	11-100		%REC	1	11/17/2004 6:57:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	11/16/2004 9:52:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	11/16/2004 9:52:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	11/16/2004 9:52:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	11/16/2004 9:52:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	11/16/2004 9:52:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	11/16/2004 9:52:00 PM
2-Butanone	ND	10	µg/L	11/16/2004 9:52:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	11/16/2004 9:52:00 PM
2-Hexanone	ND	10	µg/L	11/16/2004 9:52:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	11/16/2004 9:52:00 PM
Acetone	ND	10	µg/L	11/16/2004 9:52:00 PM
Benzene	11	5.0	µg/L	11/16/2004 9:52:00 PM
Bromodichloromethane	ND	5.0	µg/L	11/16/2004 9:52:00 PM
Bromoform	ND	5.0	µg/L	11/16/2004 9:52:00 PM
Bromomethane	ND	5.0	µg/L	11/16/2004 9:52:00 PM
Carbon disulfide	ND	10	µg/L	11/16/2004 9:52:00 PM
Carbon tetrachloride	ND	5.0	µg/L	11/16/2004 9:52:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: November 19, 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL
Lab ID: 0411079-03

Client Sample ID: TEL-1
Collection Date: 11/5/2004 11:00:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Chloroethane	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Chloroform	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Chloromethane	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Ethylbenzene	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
m,p-Xylene	ND	10		µg/L	1	11/16/2004 9:52:00 PM
Methylene chloride	ND	10		µg/L	1	11/16/2004 9:52:00 PM
Styrene	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Toluene	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Trichloroethene	ND	5.0		µg/L	1	11/16/2004 9:52:00 PM
Vinyl acetate	ND	10		µg/L	1	11/16/2004 9:52:00 PM
Vinyl chloride	ND	2.0		µg/L	1	11/16/2004 9:52:00 PM
Xylenes, Total	ND	15		µg/L	1	11/16/2004 9:52:00 PM
Surr: 1,2-Dichloroethane-d4	91.3	71-126		%REC	1	11/16/2004 9:52:00 PM
Surr: 4-Bromofluorobenzene	88.2	74-125		%REC	1	11/16/2004 9:52:00 PM
Surr: Dibromofluoromethane	87.0	73-126		%REC	1	11/16/2004 9:52:00 PM
Surr: Toluene-d8	85.8	75-125		%REC	1	11/16/2004 9:52:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	206	2.50	mg/L	5	11/10/2004 11:32:00 AM
Fluoride	2.17	0.100	mg/L	1	11/10/2004 11:04:00 AM
Sulfate	1,120	100	mg/L	100	11/10/2004 12:01:00 PM
Nitrate/Nitrite (as N)	0.420	0.100	mg/L	1	11/10/2004 11:04:00 AM
Surr: Dichloroacetic acid (surr)	95.2	80-120	%REC	1	11/10/2004 11:04:00 AM
Surr: Dichloroacetic acid (surr)	99.6	80-120	%REC	5	11/10/2004 11:32:00 AM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	100	11/10/2004 12:01:00 PM

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	11/15/2004
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Nov 19 2004

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11059 InstrumentID: ICP4500

MBLK Sample ID: MBLKW1-111004		Test Code: SW6020		Units: mg/L		Analysis Date: 11/12/04 11:40			
Client ID: Run ID: ICP4500_041112A		SeqNo: 572510		Prep Date: 11/10/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Aluminum	0.004585		0.010						J
Arsenic	ND		0.0050						
Barium	ND		0.0050						
Cadmium	ND		0.0020						
Calcium	ND		0.50						
Chromium	ND		0.0050						
Cobalt	ND		0.0050						
Copper	ND		0.0050						
Iron	ND		0.20						
Lead	ND		0.0050						
Magnesium	ND		0.20						
Manganese	ND		0.0050						
Nickel	ND		0.0050						
Potassium	ND		0.20						
Selenium	ND		0.0050						
Silver	ND		0.0050						
Sodium	ND		0.20						
Vanadium	ND		0.0050						
Zinc	ND		0.0050						

MBLK Sample ID: MBLKW1-111004		Test Code: SW6020		Units: mg/L		Analysis Date: 11/13/04 13:52			
Client ID: Run ID: ICP4500_041113A		SeqNo: 573147		Prep Date: 11/10/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Beryllium	ND		0.0020						
Boron	ND		0.020						

MBLK Sample ID: MBLKW1-111004		Test Code: SW6020		Units: mg/L		Analysis Date: 11/15/04 17:37			
Client ID: Run ID: ICP4500_041115A		SeqNo: 574214		Prep Date: 11/10/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Molybdenum	ND		0.0050						

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11059 InstrumentID: ICP4500

LCS	Sample ID: MLCSW1-111004		Test Code: SW6020		Units: mg/L		Analysis Date: 11/12/04 11:44			
Client ID:			Run ID:	ICP4500_041112A	SeqNo:	572511	Prep Date:	11/10/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.05306	0.010	0.05	0	106	79-126	0	0		
Arsenic	0.05114	0.0050	0.05	0	102	80-121	0	0		
Barium	0.04681	0.0050	0.05	0	93.6	79.8-119	0	0		
Cadmium	0.05195	0.0020	0.05	0	104	79.1-119	0	0		
Calcium	5.192	0.50	5	0	104	80-121	0	0		
Chromium	0.04839	0.0050	0.05	0	96.8	79.3-121	0	0		
Cobalt	0.04867	0.0050	0.05	0	97.3	82-121	0	0		
Copper	0.04795	0.0050	0.05	0	95.9	81-120	0	0		
Iron	5.167	0.20	5	0	103	80-120	0	0		
Lead	0.04633	0.0050	0.05	0	92.7	80-118	0	0		
Magnesium	5.483	0.20	5	0	110	80-120	0	0		
Manganese	0.04877	0.0050	0.05	0	97.5	82-119	0	0		
Nickel	0.04886	0.0050	0.05	0	97.7	82-120	0	0		
Potassium	5.13	0.20	5	0	103	80-120	0	0		
Selenium	0.05169	0.0050	0.05	0	103	79.2-118	0	0		
Silver	0.04554	0.0050	0.05	0	91.1	80-117	0	0		
Sodium	5.318	0.20	5	0	106	80.6-119	0	0		
Vanadium	0.04887	0.0050	0.05	0	97.7	82.1-119	0	0		
Zinc	0.04388	0.0050	0.05	0	87.8	79-118	0	0		

LCS	Sample ID: MLCSW1-111004		Test Code: SW6020		Units: mg/L		Analysis Date: 11/13/04 13:56			
Client ID:			Run ID:	ICP4500_041113A	SeqNo:	573148	Prep Date:	11/10/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.04935	0.0020	0.05	0	98.7	78.9-120	0	0		
Boron	0.5141	0.020	0.5	0	103	80-120	0	0		

LCS	Sample ID: MLCSW1-111004		Test Code: SW6020		Units: mg/L		Analysis Date: 11/15/04 17:41			
Client ID:			Run ID:	ICP4500_041115A	SeqNo:	574215	Prep Date:	11/10/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Molybdenum	0.04514	0.0050	0.05	0	90.3	81-115	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11059 InstrumentID: ICP4500

MS Sample ID: 0411068-07CMS Test Code: SW6020 Units: mg/L Analysis Date: 11/13/04 14:51

Client ID: Run ID: ICP4500_041113A SeqNo: 573159 Prep Date: 11/10/2004 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	201.7	5.0	5	194.7	140	80-121	0	0	SO	
Magnesium	88.9	2.0	5	78.4	210	80-120	0	0	SO	
Manganese	0.5355	0.050	0.05	0.4968	77.4	82-119	0	0	SO	
Sodium	103.7	2.0	5	94.07	193	80.6-119	0	0	SO	

MS Sample ID: 0411068-07CMS Test Code: SW6020 Units: mg/L Analysis Date: 11/13/04 16:00

Client ID: Run ID: ICP4500_041113A SeqNo: 573173 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.124	0.010	0.05	0.08307	81.9	79-126	0	0		
Arsenic	0.04793	0.0050	0.05	0	95.9	80-121	0	0		
Barium	0.1534	0.0050	0.05	0.1072	92.4	79.8-119	0	0		
Beryllium	0.04925	0.0020	0.05	0	98.5	78.9-120	0	0		
Boron	0.6993	0.020	0.5	0.1537	109	80-120	0	0		
Cadmium	0.04361	0.0020	0.05	0	87.2	79.1-119	0	0		
Chromium	0.04661	0.0050	0.05	0.0006182	92	79.3-121	0	0		
Cobalt	0.044	0.0050	0.05	0.0009945	86	82-121	0	0		
Copper	0.03981	0.0050	0.05	0.001288	77	80-120	0	0	S	
Iron	16.72	0.20	5	12	94.4	80-120	0	0		
Lead	0.04536	0.0050	0.05	0.0004856	89.7	80-118	0	0		
Nickel	0.05072	0.0050	0.05	0.01064	80.2	82-120	0	0	S	
Potassium	7.85	0.20	5	3.164	93.7	80-120	0	0		
Selenium	0.04636	0.0050	0.05	0.001799	89.1	79.2-118	0	0		
Silver	0.03689	0.0050	0.05	0	73.8	80-117	0	0	S	
Vanadium	0.04875	0.0050	0.05	0.001303	94.9	82.1-119	0	0		
Zinc	0.06685	0.0050	0.05	0.02912	75.5	79-118	0	0	S	

MS Sample ID: 0411068-07CMS Test Code: SW6020 Units: mg/L Analysis Date: 11/15/04 18:19

Client ID: Run ID: ICP4500_041115A SeqNo: 574223 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Molybdenum	0.05397	0.0050	0.05	0.007215	93.5	81-115	0	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11059 InstrumentID: ICP4500

MSD Sample ID: 0411068-07CMSD Test Code: SW6020 Units: mg/L Analysis Date: 11/13/04 14:56

Client ID: Run ID: ICP4500_041113A SeqNo: 573160 Prep Date: 11/10/2004 DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	224.4	5.0	5	194.7	594	80-121	201.7	10.7	15	SO
Magnesium	93.4	2.0	5	78.4	300	80-120	88.9	4.94	15	SO
Manganese	0.5391	0.050	0.05	0.4968	84.6	82-119	0.5355	0.67	15	O
Sodium	112.2	2.0	5	94.07	363	80.6-119	103.7	7.87	15	SO

MSD Sample ID: 0411068-07CMSD Test Code: SW6020 Units: mg/L Analysis Date: 11/13/04 16:05

Client ID: Run ID: ICP4500_041113A SeqNo: 573174 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1223	0.010	0.05	0.08307	78.5	79-126	0.124	1.38	15	S
Arsenic	0.04672	0.0050	0.05	0	93.4	80-121	0.04793	2.56	15	
Barium	0.1508	0.0050	0.05	0.1072	87.2	79.8-119	0.1534	1.71	15	
Beryllium	0.05006	0.0020	0.05	0	100	78.9-120	0.04925	1.63	15	
Boron	0.6875	0.020	0.5	0.1537	107	80-120	0.6993	1.7	15	
Cadmium	0.0436	0.0020	0.05	0	87.2	79.1-119	0.04361	0.0229	15	
Chromium	0.04722	0.0050	0.05	0.0006182	93.2	79.3-121	0.04661	1.3	15	
Cobalt	0.04316	0.0050	0.05	0.0009945	84.3	82-121	0.044	1.93	15	
Copper	0.0399	0.0050	0.05	0.001288	77.2	81-120	0.03981	0.226	15	S
Iron	16.5	0.20	5	12	90	80-120	16.72	1.32	15	
Lead	0.04559	0.0050	0.05	0.0004856	90.2	80-118	0.04536	0.506	15	
Nickel	0.05019	0.0050	0.05	0.01064	79.1	82-120	0.05072	1.05	15	S
Potassium	7.79	0.20	5	3.164	92.5	80-120	7.85	0.767	15	
Selenium	0.04578	0.0050	0.05	0.001799	88	79.2-118	0.04636	1.26	15	
Silver	0.0367	0.0050	0.05	0	73.4	80-117	0.03689	0.516	15	S
Vanadium	0.04929	0.0050	0.05	0.001303	96	82.1-119	0.04875	1.1	15	
Zinc	0.06726	0.0050	0.05	0.02912	76.3	79-118	0.06685	0.611	15	S

MSD Sample ID: 0411068-07CMSD Test Code: SW6020 Units: mg/L Analysis Date: 11/15/04 18:23

Client ID: Run ID: ICP4500_041115A SeqNo: 574224 Prep Date: 11/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Molybdenum	0.05362	0.0050	0.05	0.007215	92.8	81-115	0.05397	0.651	15	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11059 InstrumentID: ICP4500

DUP	Sample ID: 0411068-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 11/13/04 14:46		
Client ID:		Run ID:	ICP4500_041113A	SeqNo:	573158	Prep Date:	11/10/2004	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Calcium	199.8	5.0	0	0	0	0-0	194.7	2.59 25
Magnesium	84.86	2.0	0	0	0	0-0	78.4	7.91 25
Manganese	0.5121	0.050	0	0	0	0-0	0.4968	3.03 25
Sodium	98.93	2.0	0	0	0	0-0	94.07	5.04 25

DUP	Sample ID: 0411068-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 11/13/04 15:55		
Client ID:		Run ID:	ICP4500_041113A	SeqNo:	573172	Prep Date:	11/10/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	0.083	0.010	0	0	0	0-0	0.08307	0.0843 25
Arsenic	ND	0.0050	0	0	0	0-0	0.0006896	0 25
Barium	0.1066	0.0050	0	0	0	0-0	0.1072	0.561 25
Beryllium	ND	0.0020	0	0	0	0-0	0.00001444	0 25
Boron	0.1508	0.020	0	0	0	0-0	0.1537	1.9 25
Cadmium	ND	0.0020	0	0	0	0-0	0.00004056	0 25
Chromium	0.0005579	0.0050	0	0	0	0-0	0.0006182	0 25 J
Cobalt	0.0009407	0.0050	0	0	0	0-0	0.0009945	0 25 J
Copper	0.001094	0.0050	0	0	0	0-0	0.001288	0 25 J
Iron	11.84	0.20	0	0	0	0-0	12	1.34 25
Lead	0.000479	0.0050	0	0	0	0-0	0.0004856	0 25 J
Nickel	0.009953	0.0050	0	0	0	0-0	0.01064	6.67 25
Potassium	3.085	0.20	0	0	0	0-0	3.164	2.53 25
Selenium	ND	0.0050	0	0	0	0-0	0.001799	0 25
Silver	ND	0.0050	0	0	0	0-0	0.00003755	0 25
Vanadium	0.0007862	0.0050	0	0	0	0-0	0.001303	0 25 J
Zinc	0.02831	0.0050	0	0	0	0-0	0.02912	2.82 25

DUP	Sample ID: 0411068-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 11/15/04 18:14		
Client ID:		Run ID:	ICP4500_041115A	SeqNo:	574222	Prep Date:	11/10/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Molybdenum	0.007188	0.0050	0	0	0	0-0	0.007215	0.375 25

The following samples were analyzed in this batch:

0411079-01C	0411079-02C	0411079-03C
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ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11123	InstrumentID: Mercury
<hr/>	
MBLK Sample ID: GBLKW2-111604	
<hr/>	
Client ID:	Run ID: MERCURY_041116B SeqNo: 574787 Prep Date: 11/16/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	ND 0.00020
<hr/>	
LCS Sample ID: GLCSW2-111604	Test Code: SW7470 Units: mg/L Analysis Date: 11/16/04 15:53
<hr/>	
Client ID:	Run ID: MERCURY_041116B SeqNo: 574788 Prep Date: 11/16/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00518 0.00020 0.005 0 104 83-115 0
<hr/>	
LCSD Sample ID: GLCSDW2-111604	Test Code: SW7470 Units: mg/L Analysis Date: 11/16/04 16:00
<hr/>	
Client ID:	Run ID: MERCURY_041116B SeqNo: 574789 Prep Date: 11/16/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00512 0.00020 0.005 0 102 83-115 0
<hr/>	
MS Sample ID: 0411068-22CMS	Test Code: SW7470 Units: mg/L Analysis Date: 11/16/04 16:06
<hr/>	
Client ID:	Run ID: MERCURY_041116B SeqNo: 574792 Prep Date: 11/16/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.0051 0.00020 0.005 -0.000016 102 83-115 0
<hr/>	
MSD Sample ID: 0411068-22CMSD	Test Code: SW7470 Units: mg/L Analysis Date: 11/16/04 16:08
<hr/>	
Client ID:	Run ID: MERCURY_041116B SeqNo: 574793 Prep Date: 11/16/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.0052 0.00020 0.005 -0.000016 104 83-115 0.0051 1.94 20
<hr/>	
DUP Sample ID: 0411068-22CDUP	Test Code: SW7470 Units: mg/L Analysis Date: 11/16/04 16:05
<hr/>	
Client ID:	Run ID: MERCURY_041116B SeqNo: 574791 Prep Date: 11/16/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	ND 0.00020 0 0 0 0-0 -0.000016 0 20

The following samples were analyzed in this batch:

0411079-01C	0411079-02C	0411079-03C
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ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11101 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-041112	Test Code: SW8270		Units: µg/L		Analysis Date: 11/15/04 11:51				
Client ID:	Run ID: SV-3_041113A	SeqNo:	573834	Prep Date: 11/12/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
2-Nitroaniline	ND	10								
2-Nitrophenol	ND	10								
3&4-Methylphenol	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	10								
4-Nitrophenol	ND	10								
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Benz(a)anthracene	ND	10								
Benzidine	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
Nitrobenzene	ND	10								
Pentachlorophenol	ND	10								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
1,4-Dichlorobenzene-d4	40	0								
Acenaphthene-d10	40	0								
Chrysene-d12	40	0								
Naphthalene-d8	40	0								
Perylene-d12	40	0								
Phenanthrene-d10	40	0								
Surr: 2,4,6-Tribromophenol	70.34	10	100	0	70.3	39-153	0			
Surr: 2-Fluorobiphenyl	72.58	10	100	0	72.6	40-147	0			
Surr: 2-Fluorophenol	35.92	10	100	0	35.9	21-110	0			
Surr: 4-Terphenyl-d14	71.43	10	100	0	71.4	39-141	0			
Surr: Nitrobenzene-d5	62.9	10	100	0	62.9	37-140	0			
Surr: Phenol-d6	19.84	10	100	0	19.8	11-100	0			

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11101 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-041112	Test Code: SW8270		Units: µg/L		Analysis Date: 11/15/04 12:16				
Client ID:	Run ID: SV-3_041113A	SeqNo:	573835	Prep Date: 11/12/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD_Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	39.89	10	50	0	79.8	50-115	0	0		
2,4,5-Trichlorophenol	82.25	10	100	0	82.3	68-128	0	0		
2,4,6-Trichlorophenol	79.92	10	100	0	79.9	66-125	0	0		
2-Methylnaphthalene	40.73	10	50	0	81.5	47-122	0	0		
2-Methylphenol	58.24	10	100	0	58.2	51-115	0	0		
2-Nitroaniline	36.74	10	50	0	73.5	64-128	0	0		
2-Nitrophenol	78.12	10	100	0	78.1	60-119	0	0		
3&4-Methylphenol	81.48	10	150	0	54.3	44-115	0	0		
3-Nitroaniline	34.28	10	50	0	68.6	61-118	0	0		
4-Nitroaniline	34.53	10	50	0	69.1	61-123	0	0		
4-Nitrophenol	27.64	10	100	0	27.6	17-100	0	0		
Acenaphthene	41.22	10	50	0	82.4	68-115	0	0		
Acenaphthylene	40.88	10	50	0	81.8	67-116	0	0		
Aniline	25.09	10	50	0	50.2	40-130	0	0		
Anthracene	43.27	10	50	0	86.5	70-129	0	0		
Benz(a)anthracene	38.06	10	50	0	76.1	55-131	0	0		
Benzidine	7.609	10	50	0	15.2	10-115	0	0		J
Hexachloroethane	37.63	10	50	0	75.3	46-115	0	0		
Indeno(1,2,3-cd)pyrene	40.77	10	50	0	81.5	42-123	0	0		
Isophorone	39.54	10	50	0	79.1	63-117	0	0		
N-Nitrosodi-n-propylamine	36.54	10	50	0	73.1	67-115	0	0		
N-Nitrosodimethylamine	20.03	10	50	0	40.1	28-115	0	0		
N-Nitrosodiphenylamine	43.01	10	50	0	86	72-144	0	0		
Naphthalene	39.53	10	50	0	79.1	52-115	0	0		
Nitrobenzene	37.64	10	50	0	75.3	65-115	0	0		
Pentachlorophenol	66.28	10	100	0	66.3	65-123	0	0		
Phenanthrene	42.56	10	50	0	85.1	69-119	0	0		
Phenol	25.22	10	100	0	25.2	16-115	0	0		
Pyrene	43.47	10	50	0	86.9	51-130	0	0		
Surr: 2,4,6-Tribromophenol	87.93	10	100	0	87.9	39-153	0	0		
Surr: 2-Fluorobiphenyl	81.78	10	100	0	81.8	40-147	0	0		
Surr: 2-Fluorophenol	41.95	10	100	0	41.9	21-110	0	0		
Surr: 4-Terphenyl-d14	85.53	10	100	0	85.5	39-141	0	0		
Surr: Nitrobenzene-d5	73.08	10	100	0	73.1	37-140	0	0		
Surr: Phenol-d6	25.53	10	100	0	25.5	11-100	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11101 InstrumentID: SV-3

MS	Sample ID: 0411068-22DMS			Test Code: SW8270	Units: µg/L		Analysis Date: 11/15/04 13:08			
Client ID:		Run ID: SV-3_041113A		SeqNo: 573837	Prep Date: 11/12/2004 DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	40.25	10	50	0	80.5	50-115		0		
2,4,5-Trichlorophenol	82.63	10	100	0	82.6	68-128		0		
2,4,6-Trichlorophenol	81.15	10	100	0	81.2	66-125		0		
2-Methylnaphthalene	149.1	10	50	112.9	72.3	47-122		0		
2-Methylphenol	104.3	10	100	43.18	61.1	51-115		0		
2-Nitroaniline	36.05	10	50	0	72.1	64-128		0		
2-Nitrophenol	74.67	10	100	0	74.7	60-119		0		
3&4-Methylphenol	191.8	10	150	106.9	56.6	44-115		0		E
3-Nitroaniline	21.4	10	50	0	42.8	61-118		0		S
4-Nitroaniline	33.07	10	50	0	66.1	61-123		0		
4-Nitrophenol	28.49	10	100	0	28.5	17-100		0		
Acenaphthene	42.16	10	50	0	84.3	68-115		0		
Acenaphthylene	41.15	10	50	0	82.3	67-116		0		
Aniline	24.29	10	50	0	48.6	40-130		0		
Anthracene	42.96	10	50	0	85.9	70-129		0		
Benz(a)anthracene	38.74	10	50	0	77.5	55-131		0		
Benzidine	1.706	10	50	0	3.41	10-115		0		JS
Hexachloroethane	56.4	10	50	0	113	46-115		0		
Indeno(1,2,3-cd)pyrene	40.35	10	50	0	80.7	42-123		0		
Isophorone	35.91	10	50	0	71.8	63-117		0		
N-Nitrosodi-n-propylamine	36.33	10	50	0	72.7	67-115		0		
N-Nitrosodimethylamine	21.4	10	50	0	42.8	28-115		0		
N-Nitrosodiphenylamine	43.66	10	50	0	87.3	72-144		0		
Naphthalene	437.6	10	50	410.4	54.5	52-115		0		EO
Nitrobenzene	38.9	10	50	0	77.8	65-115		0		
Pentachlorophenol	69.27	10	100	0	69.3	65-123		0		
Phenanthrene	42.52	10	50	0	85	69-119		0		
Phenol	54.39	10	100	25.62	28.8	16-115		0		
Pyrene	44.34	10	50	0	88.7	51-130		0		
Surr: 2,4,6-Tribromophenol	85.13	10	100	0	85.1	39-153		0		
Surr: 2-Fluorobiphenyl	81.46	10	100	0	81.5	40-147		0		
Surr: 2-Fluorophenol	28.44	10	100	0	28.4	21-110		0		
Surr: 4-Terphenyl-d14	84.18	10	100	0	84.2	39-141		0		
Surr: Nitrobenzene-d5	70.13	10	100	0	70.1	37-140		0		
Surr: Phenol-d6	22.68	10	100	0	22.7	11-100		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

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R - RPD outside accepted recovery limits

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 11101 InstrumentID: SV-3

MSD	Sample ID: 0411068-22DMSD	Test Code: SW8270		Units: µg/L		Analysis Date: 11/15/04 13:34				
Client ID:	Run ID: SV-3_041113A	SeqNo:	573838	Prep Date: 11/12/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	38.39	10	50	0	76.8	50-115	40.25	4.73	30	
2,4,5-Trichlorophenol	78.66	10	100	0	78.7	68-128	82.63	4.93	30	
2,4,6-Trichlorophenol	78.91	10	100	0	78.9	66-125	81.15	2.8	30	
2-Methylnaphthalene	142.7	10	50	112.9	59.6	47-122	149.1	4.36	30	
2-Methylphenol	98.34	10	100	43.18	55.2	51-115	104.3	5.9	30	
2-Nitroaniline	34.94	10	50	0	69.9	64-128	36.05	3.11	30	
2-Nitrophenol	73.66	10	100	0	73.7	60-119	74.67	1.37	30	
3&4-Methylphenol	184.4	10	150	106.9	51.7	44-115	191.8	3.93	30	E
3-Nitroaniline	20.58	10	50	0	41.2	61-118	21.4	3.9	30	S
4-Nitroaniline	33.16	10	50	0	66.3	61-123	33.07	0.269	30	
4-Nitrophenol	25.78	10	100	0	25.8	17-100	28.49	9.99	30	
Acenaphthene	40.32	10	50	0	80.6	68-115	42.16	4.44	30	
Acenaphthylene	39.52	10	50	0	79	67-116	41.15	4.04	30	
Aniline	21.62	10	50	0	43.2	40-130	24.29	11.6	30	
Anthracene	41.4	10	50	0	82.8	70-129	42.96	3.69	30	
Benz(a)anthracene	37.13	10	50	0	74.3	55-131	38.74	4.24	30	
Benzidine	1.64	10	50	0	3.28	10-115	1.706	0	30	JS
Hexachloroethane	55.53	10	50	0	111	46-115	56.4	1.55	30	
Indeno(1,2,3-cd)pyrene	39.89	10	50	0	79.8	42-123	40.35	1.14	30	
Isophorone	35.44	10	50	0	70.9	63-117	35.91	1.33	30	
N-Nitrosodi-n-propylamine	36.38	10	50	0	72.8	67-115	36.33	0.127	30	
N-Nitrosodimethylamine	20.35	10	50	0	40.7	28-115	21.4	5.01	30	
N-Nitrosodiphenylamine	43.02	10	50	0	86	72-144	43.66	1.47	30	
Naphthalene	435.8	10	50	410.4	50.8	52-115	437.6	0.416	30	SEO
Nitrobenzene	37.84	10	50	0	75.7	65-115	38.9	2.75	30	
Pentachlorophenol	71.07	10	100	0	71.1	65-123	69.27	2.57	30	
Phenanthrene	41.89	10	50	0	83.8	69-119	42.52	1.52	30	
Phenol	53.37	10	100	25.62	27.7	16-115	54.39	1.89	30	
Pyrene	43.5	10	50	0	87	51-130	44.34	1.92	30	
Surr: 2,4,6-Tribromophenol	84.79	10	100	0	84.8	39-153	85.13	0.401	30	
Surr: 2-Fluorobiphenyl	78.79	10	100	0	78.8	40-147	81.46	3.33	30	
Surr: 2-Fluorophenol	26.64	10	100	0	26.6	21-110	28.44	6.53	30	
Surr: 4-Terphenyl-d14	83.67	10	100	0	83.7	39-141	84.18	0.609	30	
Surr: Nitrobenzene-d5	68.76	10	100	0	68.8	37-140	70.13	1.97	30	
Surr: Phenol-d6	22.4	10	100	0	22.4	11-100	22.68	1.21	30	

The following samples were analyzed in this batch:

0411079-01E

0411079-02E

0411079-03E

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24587 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-1112	Test Code: SW8260		Units: µg/L		Analysis Date: 11/12/04 13:27				
Client ID:		Run ID:	VOA1_041112A	SeqNo:	573890	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	45.85	5.0	50	0	91.7	71-126		0		
Surr: 4-Bromofluorobenzene	47.84	5.0	50	0	95.7	74-125		0		
Surr: Dibromofluoromethane	48.23	5.0	50	0	96.5	73-126		0		
Surr: Toluene-d8	49.18	5.0	50	0	98.4	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24587 InstrumentID: VOA1

LCS	Sample ID: VLCSW-1112			Test Code: SW8260	Units: µg/L		Analysis Date: 11/12/04 12:09			
Client ID:		Run ID: VOA1_041112A		SeqNo: 573889	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	50.34	5.0	50	0	101	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	55.63	5.0	50	0	111	72.4-121	0	0		
1,1,2-Trichloroethane	47.39	5.0	50	0	94.8	80-120	0	0		
1,1-Dichloroethane	48.04	5.0	50	0	96.1	76.9-120	0	0		
1,1-Dichloroethene	48.44	5.0	50	0	96.9	72.6-123	0	0		
1,2-Dichloroethane	46.28	5.0	50	0	92.6	80-120	0	0		
2-Butanone	108.5	10	100	0	108	69-131	0	0		
2-Chloroethyl vinyl ether	94.19	10	100	0	94.2	60-135	0	0		
2-Hexanone	105.2	10	100	0	105	55.6-126	0	0		
4-Methyl-2-pentanone	100.5	10	100	0	100	67.4-121	0	0		
Acetone	109.7	10	100	0	110	64.4-140	0	0		
Benzene	49.28	5.0	50	0	98.6	80-120	0	0		
Bromodichloromethane	50.67	5.0	50	0	101	80-120	0	0		
Bromoform	46.24	5.0	50	0	92.5	77.9-121	0	0		
Bromomethane	46.02	5.0	50	0	92	63.3-137	0	0		
Carbon disulfide	101.3	10	100	0	101	74.1-123	0	0		
Carbon tetrachloride	43.13	5.0	50	0	86.3	74.7-120	0	0		
Chlorobenzene	47.99	5.0	50	0	96	80-120	0	0		
Chloroethane	50.66	5.0	50	0	101	74.7-126	0	0		
Chloroform	49.29	5.0	50	0	98.6	80-120	0	0		
Chloromethane	52.04	5.0	50	0	104	64.5-132	0	0		
cis-1,3-Dichloropropene	51.72	5.0	50	0	103	80-120	0	0		
Dibromochloromethane	44.46	5.0	50	0	88.9	80-120	0	0		
Ethylbenzene	48.59	5.0	50	0	97.2	80-120	0	0		
m,p-Xylene	100.5	10	100	0	101	80-120	0	0		
Methylene chloride	48.86	10	50	0	97.7	76.2-120	0	0		
Styrene	50.79	5.0	50	0	102	80-120	0	0		
Tetrachloroethene	45.11	5.0	50	0	90.2	68.5-130	0	0		
Toluene	47.71	5.0	50	0	95.4	80-120	0	0		
trans-1,3-Dichloropropene	46.19	5.0	50	0	92.4	80-120	0	0		
Trichloroethene	46.24	5.0	50	0	92.5	78.9-120	0	0		
Vinyl acetate	114.2	10	100	0	114	62.4-133	0	0		
Vinyl chloride	54.54	2.0	50	0	109	72.7-128	0	0		
Xylenes, Total	151.8	15	150	0	101	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	45.14	5.0	50	0	90.3	71-126	0	0		
Surr: 4-Bromofluorobenzene	48.83	5.0	50	0	97.7	74-125	0	0		
Surr: Dibromofluoromethane	48.02	5.0	50	0	96	73-126	0	0		
Surr: Toluene-d8	48.31	5.0	50	0	96.6	75-125	0	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24587 InstrumentID: VOA1

MS	Sample ID: 0411050-08AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 11/12/04 17:00				
Client ID:	Run ID: VOA1_041112A.	SeqNo:	573893	Prep Date:		DF:	25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1304	120	1250	0	104	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	1288	120	1250	0	103	72.4-121	0	0		
1,1,2-Trichloroethane	1282	120	1250	0	103	80-120	0	0		
1,1-Dichloroethane	1253	120	1250	0	100	76.9-120	0	0		
1,1-Dichloroethene	1284	120	1250	0	103	72.6-123	0	0		
1,2-Dichloroethane	1241	120	1250	0	99.2	80-120	0	0		
2-Butanone	2594	250	2500	52.59	102	69-131	0	0		
2-Chloroethyl vinyl ether	1671	250	2500	0	66.9	60-135	0	0		
2-Hexanone	2572	250	2500	0	103	55.6-126	0	0		
4-Methyl-2-pentanone	2659	250	2500	0	106	67.4-121	0	0		
Acetone	2743	250	2500	3559	-32.7	64.4-140	0	0		S
Benzene	1765	120	1250	531.5	98.7	80-120	0	0		
Bromodichloromethane	1301	120	1250	0	104	80-120	0	0		
Bromoform	1150	120	1250	0	92	77.9-121	0	0		
Bromomethane	642.1	120	1250	0	51.4	63.3-137	0	0		S
Carbon disulfide	2668	250	2500	0	107	74.1-123	0	0		
Carbon tetrachloride	1151	120	1250	0	92.1	74.7-120	0	0		
Chlorobenzene	1203	120	1250	0	96.2	80-120	0	0		
Chloroethane	1330	120	1250	0	106	74.7-126	0	0		
Chloroform	1270	120	1250	0	102	80-120	0	0		
Chloromethane	1272	120	1250	0	102	64.5-132	0	0		
cis-1,3-Dichloropropene	1326	120	1250	0	106	80-120	0	0		
Dibromochloromethane	1191	120	1250	0	95.2	80-120	0	0		
Ethylbenzene	1424	120	1250	101.5	106	80-120	0	0		
m,p-Xylene	2744	250	2500	211.5	101	80-120	0	0		
Methylene chloride	1249	250	1250	0	100	76.2-120	0	0		
Styrene	1270	120	1250	0	102	80-120	0	0		
Tetrachloroethene	1230	120	1250	0	98.4	68.5-130	0	0		
Toluene	1308	120	1250	0	105	80-120	0	0		
trans-1,3-Dichloropropene	1228	120	1250	0	98.3	80-120	0	0		
Trichloroethene	1197	120	1250	0	95.7	78.9-120	0	0		
Vinyl acetate	3025	250	2500	0	121	62.4-133	0	0		
Vinyl chloride	1319	50	1250	0	106	72.7-128	0	0		
Xylenes, Total	4021	380	3750	211.5	102	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	1158	120	1250	0	92.6	71-126	0	0		
Surr: 4-Bromofluorobenzene	1253	120	1250	0	100	74-125	0	0		
Surr: Dibromofluoromethane	1224	120	1250	0	97.9	73-126	0	0		
Surr: Toluene-d8	1259	120	1250	0	101	75-125	0	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R24587** InstrumentID: **VOA1**

MSD	Sample ID: 0411050-08AMSD			Test Code: SW8260	Units: µg/L		Analysis Date: 11/12/04 17:36			
Client ID:		Run ID:	VOA1_041112A	SeqNo:	573894	Prep Date:	DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1293	120	1250	0	103	75.2-120	1304	0.866	20	
1,1,2,2-Tetrachloropethane	1320	120	1250	0	106	72.4-121	1288	2.51	20	
1,1,2-Trichloroethane	1299	120	1250	0	104	80-120	1282	1.36	20	
1,1-Dichloroethane	1281	120	1250	0	102	76.9-120	1253	2.23	20	
1,1-Dichloroethene	1273	120	1250	0	102	72.6-123	1284	0.866	20	
1,2-Dichloroethane	1234	120	1250	0	98.7	80-120	1241	0.53	20	
2-Butanone	2709	250	2500	52.59	106	69-131	2594	4.35	20	
2-Chloroethyl vinyl ether	1316	250	2500	0	52.6	60-135	1671	23.8	20	SR
2-Hexanone	2583	250	2500	0	103	55.6-126	2572	0.461	20	
4-Methyl-2-pentanone	2672	250	2500	0	107	67.4-121	2659	0.452	20	
Acetone	2543	250	2500	3559	-40.7	64.4-140	2743	7.56	20	S
Benzene	1762	120	1250	531.5	98.5	80-120	1765	0.177	20	
Bromodichloromethane	1328	120	1250	0	106	80-120	1301	2.02	20	
Bromoform	1196	120	1250	0	95.7	77.9-121	1150	3.91	20	
Bromomethane	699.3	120	1250	0	55.9	63.3-137	642.1	8.53	20	S
Carbon disulfide	2648	250	2500	0	106	74.1-123	2668	0.741	20	
Carbon tetrachloride	1158	120	1250	0	92.6	74.7-120	1151	0.594	20	
Chlorobenzene	1228	120	1250	0	98.2	80-120	1203	2.02	20	
Chloroethane	1356	120	1250	0	108	74.7-126	1330	1.92	20	
Chloroform	1228	120	1250	0	98.2	80-120	1270	3.4	20	
Chloromethane	1287	120	1250	0	103	64.5-132	1272	1.14	20	
cis-1,3-Dichloropropene	1332	120	1250	0	107	80-120	1326	0.459	20	
Dibromochloromethane	1165	120	1250	0	93.2	80-120	1191	2.18	20	
Ethylbenzene	1443	120	1250	101.5	107	80-120	1424	1.28	20	
m,p-Xylene	2815	250	2500	211.5	104	80-120	2744	2.56	20	
Methylene chloride	1245	250	1250	0	99.6	76.2-120	1249	0.359	20	
Styrene	1329	120	1250	0	106	80-120	1270	4.58	20	
Tetrachloroethene	1264	120	1250	0	101	68.5-130	1230	2.76	20	
Toluene	1297	120	1250	0	104	80-120	1308	0.887	20	
trans-1,3-Dichloropropene	1247	120	1250	0	99.8	80-120	1228	1.53	20	
Trichloroethene	1220	120	1250	0	97.6	78.9-120	1197	1.95	20	
Vinyl acetate	2988	250	2500	0	120	62.4-133	3025	1.24	20	
Vinyl chloride	1324	50	1250	0	106	72.7-128	1319	0.396	20	
Xylenes, Total	4124	380	3750	211.5	104	80-120	4021	2.54	20	
Surr: 1,2-Dichloroethane-d4	1116	120	1250	0	89.3	71-126	1158	3.73	20	
Surr: 4-Bromofluorobenzene	1257	120	1250	0	101	74-125	1253	0.327	20	
Surr: Dibromofluoromethane	1198	120	1250	0	95.8	73-126	1224	2.15	20	
Surr: Toluene-d8	1209	120	1250	0	96.7	75-125	1259	4.03	20	

The following samples were analyzed in this batch:

0411079-01A 0411079-02A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24633 InstrumentID: VOA2

MBLK	Sample ID: VBLKW-1116			Test Code: SW8260		Units: µg/L		Analysis Date: 11/16/04 17:14		
Client ID:		Run ID: VOA2_041116A		SeqNo: 575153		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	49.08	5.0	50	0	98.2	71-126		0		
Surr: 4-Bromofluorobenzene	39.04	5.0	50	0	78.1	74-125		0		
Surr: Dibromofluoromethane	46.51	5.0	50	0	93	73-126		0		
Surr: Toluene-d8	43.49	5.0	50	0	87	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24633 InstrumentID: VOA2

LCS	Sample ID: VLCSW-1116	Test Code: SW8260		Units: µg/L		Analysis Date: 11/16/04 15:58				
Client ID:		Run ID:	VOA2_041116A	SeqNo:	575152	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.15	5.0	50	0	94.3	75.2-120		0		
1,1,2,2-Tetrachloroethane	48.26	5.0	50	0	96.5	72.4-121		0		
1,1,2-Trichloroethane	49.63	5.0	50	0	99.3	80-120		0		
1,1-Dichloroethane	48.15	5.0	50	0	96.3	76.9-120		0		
1,1-Dichloroethene	49.31	5.0	50	0	98.6	72.6-123		0		
1,2-Dichloroethane	47.02	5.0	50	0	94	80-120		0		
2-Butanone	96.49	10	100	0	96.5	69-131		0		
2-Chloroethyl vinyl ether	132.8	10	100	0	133	60-135		0		
2-Hexanone	104.2	10	100	0	104	55.6-126		0		
4-Methyl-2-pentanone	99.7	10	100	0	99.7	67.4-121		0		
Acetone	85.5	10	100	0	85.5	64.4-140		0		
Benzene	51	5.0	50	0	102	80-120		0		
Bromodichloromethane	48.81	5.0	50	0	97.6	80-120		0		
Bromoform	51.65	5.0	50	0	103	77.9-121		0		
Bromomethane	55.57	5.0	50	0	111	63.3-137		0		
Carbon disulfide	95.3	10	100	0	95.3	74.1-123		0		
Carbon tetrachloride	47.96	5.0	50	0	95.9	74.7-120		0		
Chlorobenzene	49.13	5.0	50	0	98.3	80-120		0		
Chloroethane	49.04	5.0	50	0	98.1	74.7-126		0		
Chloroform	46.88	5.0	50	0	93.8	80-120		0		
Chloromethane	53.25	5.0	50	0	107	64.5-132		0		
cis-1,3-Dichloropropene	52.81	5.0	50	0	106	80-120		0		
Dibromochloromethane	50.88	5.0	50	0	102	80-120		0		
Ethylbenzene	50.65	5.0	50	0	101	80-120		0		
m,p-Xylene	101.3	10	100	0	101	80-120		0		
Methylene chloride	46.29	10	50	0	92.6	76.2-120		0		
Styrene	53.05	5.0	50	0	106	80-120		0		
Tetrachloroethene	48.74	5.0	50	0	97.5	68.5-130		0		
Toluene	50.76	5.0	50	0	102	80-120		0		
trans-1,3-Dichloropropene	51.33	5.0	50	0	103	80-120		0		
Trichloroethene	48.89	5.0	50	0	97.8	78.9-120		0		
Vinyl acetate	99.18	10	100	0	99.2	62.4-133		0		
Vinyl chloride	50.16	2.0	50	0	100	72.7-128		0		
Xylenes, Total	154.2	15	150	0	103	80-120		0		
Surr: 1,2-Dichloroethane-d4	41.96	5.0	50	0	83.9	71-126		0		
Surr: 4-Bromofluorobenzene	44.39	5.0	50	0	88.8	74-125		0		
Surr: Dibromofluoromethane	41.07	5.0	50	0	82.1	73-126		0		
Surr: Toluene-d8	45.24	5.0	50	0	90.5	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24633 InstrumentID: VOA2

MS	Sample ID: 0411167-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 11/16/04 18:55		
Client ID:	Run ID: VOA2_041116A	SeqNo:	575156	Prep Date:		DF:	25	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	1191	120	1250	0	95.3	75.2-120	0	0
1,1,2,2-Tetrachloroethane	1305	120	1250	0	104	72.4-121	0	0
1,1,2-Trichloroethane	1310	120	1250	0	105	80-120	0	0
1,1-Dichloroethane	1220	120	1250	0	97.6	76.9-120	0	0
1,1-Dichloroethene	1192	120	1250	0	95.4	72.6-123	0	0
1,2-Dichloroethane	1287	120	1250	0	103	80-120	0	0
2-Butanone	2570	250	2500	0	103	69-131	0	0
2-Chloroethyl vinyl ether	3094	250	2500	0	124	60-135	0	0
2-Hexanone	2737	250	2500	0	109	55.6-126	0	0
4-Methyl-2-pentanone	2791	250	2500	0	112	67.4-121	0	0
Acetone	2151	250	2500	0	86.1	64.4-140	0	0
Benzene	1333	120	1250	0	107	80-120	0	0
Bromodichloromethane	1331	120	1250	0	107	80-120	0	0
Bromoform	1413	120	1250	0	113	77.9-121	0	0
Bromomethane	1271	120	1250	0	102	63.3-137	0	0
Carbon disulfide	2410	250	2500	0	96.4	74.1-123	0	0
Carbon tetrachloride	1250	120	1250	0	100	74.7-120	0	0
Chlorobenzene	1277	120	1250	0	102	80-120	0	0
Chloroethane	1185	120	1250	0	94.8	74.7-126	0	0
Chloroform	1259	120	1250	55.66	96.3	80-120	0	0
Chloromethane	1297	120	1250	0	104	64.5-132	0	0
cis-1,3-Dichloropropene	1383	120	1250	0	111	80-120	0	0
Dibromochloromethane	1336	120	1250	0	107	80-120	0	0
Ethylbenzene	1325	120	1250	0	106	80-120	0	0
m,p-Xylene	2679	250	2500	0	107	80-120	0	0
Methylene chloride	1184	250	1250	0	94.7	76.2-120	0	0
Styrene	1394	120	1250	0	112	80-120	0	0
Tetrachloroethene	1256	120	1250	0	100	68.5-130	0	0
Toluene	1299	120	1250	0	104	80-120	0	0
trans-1,3-Dichloropropene	1366	120	1250	0	109	80-120	0	0
Trichloroethene	1259	120	1250	0	101	78.9-120	0	0
Vinyl acetate	2551	250	2500	0	102	62.4-133	0	0
Vinyl chloride	1171	50	1250	0	93.7	72.7-128	0	0
Xylenes, Total	4072	380	3750	0	109	80-120	0	0
Surr: 1,2-Dichloroethane-d4	1122	120	1250	0	89.8	71-126	0	0
Surr: 4-Bromofluorobenzene	1136	120	1250	0	90.9	74-125	0	0
Surr: Dibromofluoromethane	1085	120	1250	0	86.8	73-126	0	0
Surr: Toluene-d8	1168	120	1250	0	93.4	75-125	0	0

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24633 InstrumentID: VOA2

MSD	Sample ID: 0411167-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 11/16/04 19:20			
Client ID:		Run ID:	VOA2_041116A	SeqNo:	575157	Prep Date:	DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	1163	120	1250	0	93.1	75.2-120	1191	2.41	20
1,1,2,2-Tetrachloroethane	1283	120	1250	0	103	72.4-121	1305	1.74	20
1,1,2-Trichloroethane	1339	120	1250	0	107	80-120	1310	2.2	20
1,1-Dichloroethane	1190	120	1250	0	95.2	76.9-120	1220	2.5	20
1,1-Dichloroethene	1199	120	1250	0	95.9	72.6-123	1192	0.575	20
1,2-Dichloroethane	1232	120	1250	0	98.6	80-120	1287	4.37	20
2-Butanone	2606	250	2500	0	104	69-131	2570	1.36	20
2-Chloroethyl vinyl ether	3194	250	2500	0	128	60-135	3094	3.19	20
2-Hexanone	2790	250	2500	0	112	55.6-126	2737	1.92	20
4-Methyl-2-pentanone	2777	250	2500	0	111	67.4-121	2791	0.477	20
Acetone	2229	250	2500	0	89.2	64.4-140	2151	3.54	20
Benzene	1281	120	1250	0	102	80-120	1333	4.03	20
Bromodichloromethane	1248	120	1250	0	99.8	80-120	1331	6.46	20
Bromoform	1369	120	1250	0	110	77.9-121	1413	3.17	20
Bromomethane	1384	120	1250	0	111	63.3-137	1271	8.51	20
Carbon disulfide	2354	250	2500	0	94.1	74.1-123	2410	2.36	20
Carbon tetrachloride	1210	120	1250	0	96.8	74.7-120	1250	3.24	20
Chlorobenzene	1232	120	1250	0	98.6	80-120	1277	3.56	20
Chloroethane	1220	120	1250	0	97.6	74.7-126	1185	2.96	20
Chloroform	1205	120	1250	55.66	91.9	80-120	1259	4.41	20
Chloromethane	1348	120	1250	0	108	64.5-132	1297	3.88	20
cis-1,3-Dichloropropene	1337	120	1250	0	107	80-120	1383	3.39	20
Dibromochloromethane	1311	120	1250	0	105	80-120	1336	1.93	20
Ethylbenzene	1282	120	1250	0	103	80-120	1325	3.27	20
m,p-Xylene	2580	250	2500	0	103	80-120	2679	3.75	20
Methylene chloride	1147	250	1250	0	91.7	76.2-120	1184	3.21	20
Styrene	1337	120	1250	0	107	80-120	1394	4.18	20
Tetrachloroethene	1227	120	1250	0	98.1	68.5-130	1256	2.36	20
Toluene	1261	120	1250	0	101	80-120	1299	2.98	20
trans-1,3-Dichloropropene	1310	120	1250	0	105	80-120	1366	4.18	20
Trichloroethene	1204	120	1250	0	96.3	78.9-120	1259	4.48	20
Vinyl acetate	2537	250	2500	0	101	62.4-133	2551	0.542	20
Vinyl chloride	1235	50	1250	0	98.8	72.7-128	1171	5.3	20
Xylenes, Total	3911	380	3750	0	104	80-120	4072	4.03	20
Surr: 1,2-Dichloroethane-d4	1084	120	1250	0	86.7	71-126	1122	3.41	20
Surr: 4-Bromofluorobenzene	1100	120	1250	0	88	74-125	1136	3.14	20
Surr: Dibromofluoromethane	1021	120	1250	0	81.7	73-126	1085	6.05	20
Surr: Toluene-d8	1120	120	1250	0	89.6	75-125	1168	4.23	20

The following samples were analyzed in this batch:

0411079-03A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24438 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-110904		Test Code: E300		Units: mg/L		Analysis Date: 11/10/04 2:02		
Client ID:		Run ID: IC201_041109A		SeqNo: 570552		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.29	0.10	5	0	106	80-120	0			

LCS		Sample ID: WLCSW1-110904		Test Code: E300		Units: mg/L		Analysis Date: 11/10/04 2:30		
Client ID:		Run ID: IC201_041109A		SeqNo: 570553		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.03	0.50	10	0	90.3	80-120	0			
Fluoride	1.97	0.10	2	0	98.5	80-120	0			
Sulfate	9.66	1.0	10	0	96.6	80-120	0			
Nitrate/Nitrite (as N)	3.8	0.10	0	0	0	80-120	0			
Surr: Dichloroacetic acid (surr)	5.44	0.10	5	0	109	80-120	0			

LCSD		Sample ID: WLCSDW1-11090		Test Code: E300		Units: mg/L		Analysis Date: 11/10/04 2:59		
Client ID:		Run ID: IC201_041109A		SeqNo: 570554		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.88	0.50	10	0	88.8	80-120	9.03	1.68	20	
Fluoride	1.98	0.10	2	0	99	80-120	1.97	0.506	20	
Sulfate	9.66	1.0	10	0	96.6	80-120	9.66	0	20	
Nitrate/Nitrite (as N)	3.77	0.10	0	0	0	80-120	3.8	0.793	20	
Surr: Dichloroacetic acid (surr)	5.22	0.10	5	0	104	80-120	5.44	4.13	20	

MS		Sample ID: 0410298-01EMS		Test Code: E300		Units: mg/L		Analysis Date: 11/10/04 4:24		
Client ID:		Run ID: IC201_041109A		SeqNo: 570557		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1313	0.50	10	1326	-128	75-125	0			SEO
Fluoride	2.68	0.10	2	0.71	98.5	75-125	0			
Sulfate	47.13	1.0	10	34.62	125	75-125	0			S
Nitrate/Nitrite (as N)	3.78	0.10	4	0	94.5	75-125	0			
Surr: Dichloroacetic acid (surr)	5.4	0.10	5	0	108	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24438 InstrumentID: IC201

MSD	Sample ID: 0410298-01EMSD		Test Code: E300		Units: mg/L		Analysis Date: 11/10/04 4:53			
Client ID:	Run ID: IC201_041109A		SeqNo: 570558		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1325	0.50	10	1326	-6.1	75-125	1313	0.926	20	SEO
Fluoride	2.58	0.10	2	0.71	93.5	75-125	2.68	3.8	20	
Sulfate	46.52	1.0	10	34.62	119	75-125	47.13	1.3	20	
Nitrate/Nitrite (as N)	3.56	0.10	4	0	89	75-125	3.78	5.99	20	
Surr: Dichloroacetic acid (surr)	5.52	0.10	5	0	110	80-120	5.4	2.2	20	

DUP	Sample ID: 0410298-01EDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/10/04 3:56			
Client ID:	Run ID: IC201_041109A		SeqNo: 570556		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1344	0.50	0	0	0	0-0	1326	1.37	20	E
Fluoride	0.7	0.10	0	0	0	0-0	0.71	1.42	20	
Sulfate	34.67	1.0	0	0	0	0-0	34.62	0.144	20	
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	4.25	0.10	5	0	85	80-120	4.27	0.469	20	

DUP	Sample ID: 0410327-01BDUP		Test Code: E300		Units: mg/L		Analysis Date: 11/10/04 13:26			
Client ID:	Run ID: IC201_041109A		SeqNo: 571432		Prep Date:		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2339	50	0	0	0	0-0	2346	0.299	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	ND	100	0	0	0	0-0	0	0	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	506	10	500	0	101	80-120	525	3.69	20	

The following samples were analyzed in this batch:

0411079-01B 0411079-02B 0411079-03B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0411079
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R24595 InstrumentID: UV-2101PC

MBLK	Sample ID: WBLKW1-111404		Test Code: E335.3		Units: mg/L		Analysis Date: 11/15/04 0:00		
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Client ID:			Run ID:	UV-2101PC_041115A	SeqNo:	574162	Prep Date:	DF: 1	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020								

LCS	Sample ID: WLCSW1-111404		Test Code: E335.3		Units: mg/L		Analysis Date: 11/15/04 0:00		
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Client ID:			Run ID:	UV-2101PC_041115A	SeqNo:	574163	Prep Date:	DF: 1	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.191	0.020	0.2	0	95.5	80-120	0			

MS	Sample ID: 0411068-22BMS		Test Code: E335.3		Units: mg/L		Analysis Date: 11/15/04 0:00		
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Client ID:			Run ID:	UV-2101PC_041115A	SeqNo:	574175	Prep Date:	DF: 1	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2003	0.020	0.2	0.0078	96.2	75-125	0			

MSD	Sample ID: 0411068-22BMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 11/15/04 0:00		
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Client ID:			Run ID:	UV-2101PC_041115A	SeqNo:	574176	Prep Date:	DF: 1	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.198	0.020	0.2	0.0078	95.1	75-125	0.2003	1.15	25	

DUP	Sample ID: 0411068-22BDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 11/15/04 0:00		
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Client ID:			Run ID:	UV-2101PC_041115A	SeqNo:	574186	Prep Date:	DF: 1	
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.0078	0.020	0	0	0	0-0	0.0078	0	20	J

The following samples were analyzed in this batch: 0411079-01D 0411079-02D 0411079-03D

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

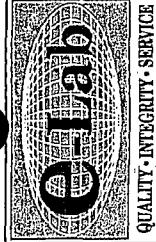
R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.
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Chain of Custody Form

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Page 1 of 1

Customer Information		e-Lab Project Manager:		e-Lab Work Order #:	
				001100	
Purchase Order:		Project Information		Parameter/Method Request for Analysis	
Work Order:		Project Name <i>Annual Sampling</i>	A	VOC (B26)	
Company Name:		Project Number Navajo Refining Company	B	Total Metals (G020700) WGCC + 18 Cations	
Send Report To:		Bill to Company Jeff Byrd	C	SVOC (B27)	
Address:		Invoice Attn PO Box 159	D	Anions (30D) Chloride, Nitrate, Fluoride, Nitrite, Sulfate	
City/State/Zip:		Address Artesia, NM 88211	E	Alkalinity (310.1)	
Phone:		Phone (505) 748-3311	F	Oxamide	
Fax:		Fax (505) 746-5421	G	WCC / TEL	
e-Mail Address:		e-Mail Address	H		
No.	Sample Description	Date	Time	Matrix	Pres.
1	TEL-3	11/5/04	1000	L	3
2	TEL-2	11/5/04	1030	L	3
3	TEL-1	11/5/04	1100	L	3
4					
5					
6					
7					
8					
9					
10					
Sampler's Please Print & Sign		Shipment Method	Required Turnaround Time (Check Box)	Results Due Date:	
<i>J. H. H.</i>		<i>P20EX</i>	<input type="checkbox"/> STD 0 WK Days <input type="checkbox"/> 2 WK Days <input type="checkbox"/> 5 WK Days <input type="checkbox"/> 24 Hour	<input type="checkbox"/> One Day <input type="checkbox"/> Standard TAT.	
Reinforced by:		Time: <i>16/15</i>	Received by: <i>R. M.</i>	Notes:	
Reinforced by:		Date: <i>11/5/04</i>	Received by (Laboratory): <i>R. M.</i>	QC Package (Check One Box Below)	
Logged by (Laboratory):		Date: <i>11/8/04</i>	Checked by (Laboratory): <i>R. M.</i>	<input checked="" type="checkbox"/> Level I Std QC/R&R Data	<input type="checkbox"/> TRP Check
Preservative Key:		Time: <i>16/15</i>	Date: <i>11/8/04</i>	<input type="checkbox"/> Level II Std QC/R&R Data	<input type="checkbox"/> TRP Level IV
		Time: <i>16/15</i>	Date: <i>11/8/04</i>	<input type="checkbox"/> Level III Std QC/R&R Data	<input type="checkbox"/> TRP Level V
		Time: <i>16/15</i>	Date: <i>11/8/04</i>	<input type="checkbox"/> Level IV SW846/CPLP	<input type="checkbox"/> Other _____
		Time: <i>16/15</i>	Date: <i>11/8/04</i>	<input type="checkbox"/> Other _____	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.

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e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 11/8/2004 8:51:00 AM

Work Order Number 0411079

Received by: RSZ

Checklist completed by RICHARDSON CHR2

Signature

Date

Reviewed by

Initials

Date

Matrix: W

Carrier name FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 10.3c 002

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

Adjusted?

NO

Checked by

RS

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____

Date contacted: _____

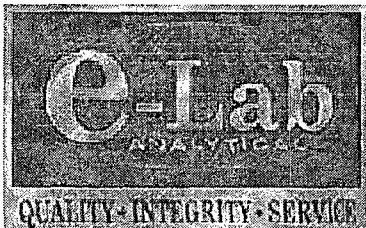
Person contacted _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action _____



e-Lab Analytical, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

August 18, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0408060**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 3 samples on 8/5/2004 8:30:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 36.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Jeffrey L Croston

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: **0408060**

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0408060-01	TEL-2	Liquid		8/4/2004 09:00	8/5/2004 08:30	<input type="checkbox"/>
0408060-02	TEL-1	Liquid		8/4/2004 09:30	8/5/2004 08:30	<input type="checkbox"/>
0408060-03	TEL-3	Liquid		8/4/2004 10:00	8/5/2004 08:30	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0408060

Case Narrative

Batch 9904 Metals MS/MSD was an unrelated sample.

Batch 9873 Semivolatile LCS/LCSD RPD recoveries were outside of control limits for Benzidine (43.1%). Individual QC criteria was within control limits in the LCS/LCSD.

Batch R22337 Volatiles (sample TEL-2) MS/MSD recoveries were outside of control limits for Vinyl acetate (137% and 135%) and 2-Chloroethyl vinyl ether (57.3% MSD only). Recoveries were acceptable in the LCS.

Batch R22337 Volatiles (sample TEL-2) MS/MSD RPD recoveries were outside of control limits for 2-Chloroethyl vinyl ether (28.5%).

Batch R22339 Volatiles MS/MSD was an unrelated sample.

Batch R22302 Anions (sample TEL-2) MS/MSD recoveries were outside of control limits for Chloride and Sulfate, in which both were E and O flagged.

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-01

Client Sample ID: TEL-2
Collection Date: 8/4/2004 9:00:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL		SW7470			
Mercury	ND	0.000200	mg/L	1	8/11/2004 11:33:24 AM
ICP METALS, TOTAL		SW6020			
Aluminum	ND	0.0100	mg/L	1	8/11/2004 4:32:00 PM
Arsenic	0.0118	0.00500	mg/L	1	8/11/2004 4:32:00 PM
Barium	0.0943	0.00500	mg/L	1	8/11/2004 4:32:00 PM
Beryllium	ND	0.00200	mg/L	1	8/11/2004 4:32:00 PM
Boron	0.611	0.200	mg/L	10	8/10/2004 7:10:00 PM
Cadmium	ND	0.00100	mg/L	1	8/11/2004 4:32:00 PM
Calcium	164	25.0	mg/L	50	8/10/2004 6:20:00 PM
Chromium	ND	0.00200	mg/L	1	8/11/2004 4:32:00 PM
Cobalt	ND	0.00200	mg/L	1	8/11/2004 4:32:00 PM
Copper	0.00224	0.00200	mg/L	1	8/11/2004 4:32:00 PM
Iron	0.436	0.200	mg/L	1	8/11/2004 4:32:00 PM
Lead	ND	0.00500	mg/L	1	8/12/2004 3:48:00 PM
Magnesium	167	10.0	mg/L	50	8/10/2004 6:20:00 PM
Manganese	0.0264	0.00500	mg/L	1	8/11/2004 4:32:00 PM
Molybdenum	ND	0.00500	mg/L	1	8/11/2004 4:32:00 PM
Nickel	ND	0.00500	mg/L	1	8/11/2004 4:32:00 PM
Potassium	0.882	0.200	mg/L	1	8/11/2004 4:32:00 PM
Selenium	ND	0.00500	mg/L	1	8/11/2004 4:32:00 PM
Silver	ND	0.00500	mg/L	1	8/11/2004 4:32:00 PM
Sodium	375	10.0	mg/L	50	8/10/2004 6:20:00 PM
Vanadium	ND	0.00500	mg/L	1	8/11/2004 4:32:00 PM
Zinc	0.00735	0.00500	mg/L	1	8/11/2004 4:32:00 PM
SEMOVOLATILE ORGANICS BY GC/MS		SW8270			
1,2,4-Trichlorobenzene	ND	11	µg/L	1	8/9/2004 5:38:00 PM
2,4,5-Trichlorophenol	ND	11	µg/L	1	8/9/2004 5:38:00 PM
2,4,6-Trichlorophenol	ND	11	µg/L	1	8/9/2004 5:38:00 PM
2-Methylnaphthalene	ND	11	µg/L	1	8/9/2004 5:38:00 PM
2-Methylphenol	ND	11	µg/L	1	8/9/2004 5:38:00 PM
2-Nitroaniline	ND	11	µg/L	1	8/9/2004 5:38:00 PM
2-Nitrophenol	ND	11	µg/L	1	8/9/2004 5:38:00 PM
3-Nitroaniline	ND	11	µg/L	1	8/9/2004 5:38:00 PM
4-Methylphenol	ND	11	µg/L	1	8/9/2004 5:38:00 PM
4-Nitroaniline	ND	11	µg/L	1	8/9/2004 5:38:00 PM
4-Nitrophenol	ND	11	µg/L	1	8/9/2004 5:38:00 PM
Acenaphthene	ND	11	µg/L	1	8/9/2004 5:38:00 PM
Acenaphthylene	ND	11	µg/L	1	8/9/2004 5:38:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-01

Client Sample ID: TEL-2
Collection Date: 8/4/2004 9:00:00 AM
Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Anthracene	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Benz(a)anthracene	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Benzidine	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Hexachloroethane	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Isophorone	ND	11		µg/L	1	8/9/2004 5:38:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	8/9/2004 5:38:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	8/9/2004 5:38:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Naphthalene	23	11		µg/L	1	8/9/2004 5:38:00 PM
Nitrobenzene	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Pentachlorophenol	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Phenanthrene	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Phenol	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Pyrene	ND	11		µg/L	1	8/9/2004 5:38:00 PM
Surr: 2,4,6-Tribromophenol	106	39-153		%REC	1	8/9/2004 5:38:00 PM
Surr: 2-Fluorobiphenyl	95.3	40-147		%REC	1	8/9/2004 5:38:00 PM
Surr: 2-Fluorophenol	37.1	21-110		%REC	1	8/9/2004 5:38:00 PM
Surr: 4-Terphenyl-d14	89.5	39-141		%REC	1	8/9/2004 5:38:00 PM
Surr: Nitrobenzene-d5	88.7	37-140		%REC	1	8/9/2004 5:38:00 PM
Surr: Phenol-d6	24.8	11-100		%REC	1	8/9/2004 5:38:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
2-Butanone	ND	10		µg/L	1	8/11/2004 8:22:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	8/11/2004 8:22:00 PM
2-Hexanone	ND	10		µg/L	1	8/11/2004 8:22:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/11/2004 8:22:00 PM
Acetone	ND	10		µg/L	1	8/11/2004 8:22:00 PM
Benzene	1,400	120		µg/L	25	8/12/2004 2:10:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Bromoform	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Bromomethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Carbon disulfide	ND	10		µg/L	1	8/11/2004 8:22:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-01

Client Sample ID: TEL-2
Collection Date: 8/4/2004 9:00:00 AM
Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Chloroethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Chloroform	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Chloromethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Ethylbenzene	40	5.0		µg/L	1	8/11/2004 8:22:00 PM
m,p-Xylene	230	10		µg/L	1	8/11/2004 8:22:00 PM
Methylene chloride	ND	10		µg/L	1	8/11/2004 8:22:00 PM
Styrene	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Toluene	110	5.0		µg/L	1	8/11/2004 8:22:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/11/2004 8:22:00 PM
Vinyl acetate	ND	10		µg/L	1	8/11/2004 8:22:00 PM
Vinyl chloride	ND	2.0		µg/L	1	8/11/2004 8:22:00 PM
Xylenes, Total	250	15		µg/L	1	8/11/2004 8:22:00 PM
Surr: 1,2-Dichloroethane-d4	84.7	71-126		%REC	1	8/11/2004 8:22:00 PM
Surr: 1,2-Dichloroethane-d4	86.0	71-126		%REC	25	8/12/2004 2:10:00 PM
Surr: 4-Bromofluorobenzene	93.8	74-125		%REC	1	8/11/2004 8:22:00 PM
Surr: 4-Bromofluorobenzene	97.3	74-125		%REC	25	8/12/2004 2:10:00 PM
Surr: Dibromofluoromethane	94.2	73-126		%REC	25	8/12/2004 2:10:00 PM
Surr: Dibromofluoromethane	87.5	73-126		%REC	1	8/11/2004 8:22:00 PM
Surr: Toluene-d8	95.4	75-125		%REC	1	8/11/2004 8:22:00 PM
Surr: Toluene-d8	97.0	75-125		%REC	25	8/12/2004 2:10:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	208	5.00		mg/L	10	8/10/2004 5:32:00 PM
Fluoride	1.33	0.100		mg/L	1	8/10/2004 3:38:00 PM
Sulfate	730	20.0		mg/L	20	8/10/2004 6:00:00 PM
Surr: Dichloroacetic acid (surr)	106	80-120		%REC	1	8/10/2004 3:38:00 PM
Surr: Dichloroacetic acid (surr)	106	80-120		%REC	10	8/10/2004 5:32:00 PM
Surr: Dichloroacetic acid (surr)	107	80-120		%REC	20	8/10/2004 6:00:00 PM
ALKALINITY						
			E310.1			Analyst: MG
Alkalinity, Bicarbonate (As CaCO ₃)	845	5.00		mg/L	1	8/13/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	8/13/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	8/13/2004
Alkalinity, Total (As CaCO ₃)	845	5.00		mg/L	1	8/13/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	8/9/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-02

Client Sample ID: TEL-1
Collection Date: 8/4/2004 9:30:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	8/11/2004 11:44:52 AM
ICP METALS, TOTAL			SW6020			
Aluminum	ND	0.0100		mg/L	1	8/11/2004 4:59:00 PM
Arsenic	ND	0.00500		mg/L	1	8/11/2004 4:59:00 PM
Barium	0.0112	0.00500		mg/L	1	8/11/2004 4:59:00 PM
Beryllium	ND	0.00200		mg/L	1	8/11/2004 4:59:00 PM
Boron	0.569	0.200		mg/L	10	8/10/2004 7:14:00 PM
Cadmium	ND	0.00100		mg/L	1	8/11/2004 4:59:00 PM
Calcium	344	25.0		mg/L	50	8/10/2004 6:25:00 PM
Chromium	ND	0.00200		mg/L	1	8/11/2004 4:59:00 PM
Cobalt	ND	0.00200		mg/L	1	8/11/2004 4:59:00 PM
Copper	ND	0.00200		mg/L	1	8/11/2004 4:59:00 PM
Iron	0.818	0.200		mg/L	1	8/11/2004 4:59:00 PM
Lead	ND	0.00500		mg/L	1	8/12/2004 3:54:00 PM
Magnesium	120	10.0		mg/L	50	8/10/2004 6:25:00 PM
Manganese	0.106	0.00500		mg/L	1	8/11/2004 4:59:00 PM
Molybdenum	ND	0.00500		mg/L	1	8/11/2004 4:59:00 PM
Nickel	ND	0.00500		mg/L	1	8/11/2004 4:59:00 PM
Potassium	0.946	0.200		mg/L	1	8/11/2004 4:59:00 PM
Selenium	ND	0.00500		mg/L	1	8/11/2004 4:59:00 PM
Silver	ND	0.00500		mg/L	1	8/11/2004 4:59:00 PM
Sodium	355	10.0		mg/L	50	8/10/2004 6:25:00 PM
Vanadium	ND	0.00500		mg/L	1	8/11/2004 4:59:00 PM
Zinc	0.00581	0.00500		mg/L	1	8/11/2004 4:59:00 PM
SEMIVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	8/9/2004 6:03:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	8/9/2004 6:03:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
2-Methylphenol	ND	10		µg/L	1	8/9/2004 6:03:00 PM
2-Nitroaniline	ND	10		µg/L	1	8/9/2004 6:03:00 PM
2-Nitrophenol	ND	10		µg/L	1	8/9/2004 6:03:00 PM
3-Nitroaniline	ND	10		µg/L	1	8/9/2004 6:03:00 PM
4-Methylphenol	ND	10		µg/L	1	8/9/2004 6:03:00 PM
4-Nitroaniline	ND	10		µg/L	1	8/9/2004 6:03:00 PM
4-Nitrophenol	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Acenaphthene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Acenaphthylene	ND	10		µg/L	1	8/9/2004 6:03:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-02

Client Sample ID: TEL-1
Collection Date: 8/4/2004 9:30:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Anthracene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Benz(a)anthracene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Benzidine	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Hexachloroethane	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Isophorone	ND	10		µg/L	1	8/9/2004 6:03:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	8/9/2004 6:03:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	8/9/2004 6:03:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Naphthalene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Nitrobenzene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Pentachlorophenol	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Phenanthrene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Phenol	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Pyrene	ND	10		µg/L	1	8/9/2004 6:03:00 PM
Surr: 2,4,6-Tribromophenol	101	39-153		%REC	1	8/9/2004 6:03:00 PM
Surr: 2-Fluorobiphenyl	89.5	40-147		%REC	1	8/9/2004 6:03:00 PM
Surr: 2-Fluorophenol	37.3	21-110		%REC	1	8/9/2004 6:03:00 PM
Surr: 4-Terphenyl-d14	91.2	39-141		%REC	1	8/9/2004 6:03:00 PM
Surr: Nitrobenzene-d5	88.0	37-140		%REC	1	8/9/2004 6:03:00 PM
Surr: Phenol-d6	23.3	11-100		%REC	1	8/9/2004 6:03:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
2-Butanone	ND	10		µg/L	1	8/11/2004 8:50:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	8/11/2004 8:50:00 PM
2-Hexanone	ND	10		µg/L	1	8/11/2004 8:50:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/11/2004 8:50:00 PM
Acetone	ND	10		µg/L	1	8/11/2004 8:50:00 PM
Benzene	19	5.0		µg/L	1	8/11/2004 8:50:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Bromoform	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Bromomethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Carbon disulfide	ND	10		µg/L	1	8/11/2004 8:50:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time
AR Page 5 of 9

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-02

Client Sample ID: TEL-1
Collection Date: 8/4/2004 9:30:00 AM

Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Chloroethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Chloroform	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Chloromethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
m,p-Xylene	ND	10		µg/L	1	8/11/2004 8:50:00 PM
Methylene chloride	ND	10		µg/L	1	8/11/2004 8:50:00 PM
Styrene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Toluene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/11/2004 8:50:00 PM
Vinyl acetate	ND	10		µg/L	1	8/11/2004 8:50:00 PM
Vinyl chloride	ND	2.0		µg/L	1	8/11/2004 8:50:00 PM
Xylenes, Total	ND	15		µg/L	1	8/11/2004 8:50:00 PM
Surr: 1,2-Dichloroethane-d4	86.4	71-126		%REC	1	8/11/2004 8:50:00 PM
Surr: 4-Bromofluorobenzene	94.5	74-125		%REC	1	8/11/2004 8:50:00 PM
Surr: Dibromofluoromethane	91.2	73-126		%REC	1	8/11/2004 8:50:00 PM
Surr: Toluene-d8	100	75-125		%REC	1	8/11/2004 8:50:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	193	2.50		mg/L	5	8/10/2004 7:26:00 PM
Fluoride	2.30	0.100		mg/L	1	8/10/2004 6:57:00 PM
Sulfate	1,310	100		mg/L	100	8/10/2004 7:54:00 PM
Surr: Dichloroacetic acid (surr)	104	80-120		%REC	1	8/10/2004 6:57:00 PM
Surr: Dichloroacetic acid (surr)	105	80-120		%REC	5	8/10/2004 7:26:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	100	8/10/2004 7:54:00 PM
ALKALINITY						
			E310.1			Analyst: MG
Alkalinity, Bicarbonate (As CaCO ₃)	470	5.00		mg/L	1	8/13/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	8/13/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	8/13/2004
Alkalinity, Total (As CaCO ₃)	470	5.00		mg/L	1	8/13/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	8/9/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-03

Client Sample ID: TEL-3
Collection Date: 8/4/2004 10:00:00 AM
Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	Prep Date: 8/10/2004 Analyst: JCJ 8/11/2004 11:46:23 AM
ICP METALS, TOTAL			SW6020			
Aluminum	ND	0.0100		mg/L	1	Prep Date: 8/10/2004 Analyst: ALR 8/11/2004 5:04:00 PM
Arsenic	ND	0.00500		mg/L	1	8/11/2004 5:04:00 PM
Barium	0.0113	0.00500		mg/L	1	8/11/2004 5:04:00 PM
Beryllium	ND	0.00200		mg/L	1	8/11/2004 5:04:00 PM
Boron	0.578	0.200		mg/L	10	8/10/2004 7:19:00 PM
Cadmium	ND	0.00100		mg/L	1	8/11/2004 5:04:00 PM
Calcium	644	25.0		mg/L	50	8/10/2004 6:29:00 PM
Chromium	ND	0.00200		mg/L	1	8/11/2004 5:04:00 PM
Cobalt	ND	0.00200		mg/L	1	8/11/2004 5:04:00 PM
Copper	0.00271	0.00200		mg/L	1	8/11/2004 5:04:00 PM
Iron	1.49	0.200		mg/L	1	8/11/2004 5:04:00 PM
Lead	ND	0.00500		mg/L	1	8/12/2004 4:05:00 PM
Magnesium	210	10.0		mg/L	50	8/10/2004 6:29:00 PM
Manganese	0.00992	0.00500		mg/L	1	8/11/2004 5:04:00 PM
Molybdenum	ND	0.00500		mg/L	1	8/11/2004 5:04:00 PM
Nickel	0.00795	0.00500		mg/L	1	8/11/2004 5:04:00 PM
Potassium	3.61	0.200		mg/L	1	8/11/2004 5:04:00 PM
Selenium	0.00552	0.00500		mg/L	1	8/11/2004 5:04:00 PM
Silver	ND	0.00500		mg/L	1	8/11/2004 5:04:00 PM
Sodium	73.2	10.0		mg/L	50	8/10/2004 6:29:00 PM
Vanadium	ND	0.00500		mg/L	1	8/11/2004 5:04:00 PM
Zinc	0.00811	0.00500		mg/L	1	8/11/2004 5:04:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	Prep Date: 8/6/2004 Analyst: HV 8/9/2004 6:28:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	8/9/2004 6:28:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	8/9/2004 6:28:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
2-Methylphenol	ND	10		µg/L	1	8/9/2004 6:28:00 PM
2-Nitroaniline	ND	10		µg/L	1	8/9/2004 6:28:00 PM
2-Nitrophenol	ND	10		µg/L	1	8/9/2004 6:28:00 PM
3-Nitroaniline	ND	10		µg/L	1	8/9/2004 6:28:00 PM
4-Methylphenol	ND	10		µg/L	1	8/9/2004 6:28:00 PM
4-Nitroaniline	ND	10		µg/L	1	8/9/2004 6:28:00 PM
4-Nitrophenol	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Acenaphthene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Acenaphthylene	ND	10		µg/L	1	8/9/2004 6:28:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-03

Client Sample ID: TEL-3
Collection Date: 8/4/2004 10:00:00 AM
Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Anthracene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Benz(a)anthracene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Benzidine	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Hexachloroethane	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Isophorone	ND	10		µg/L	1	8/9/2004 6:28:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	8/9/2004 6:28:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	8/9/2004 6:28:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Naphthalene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Nitrobenzene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Pentachlorophenol	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Phenanthrene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Phenol	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Pyrene	ND	10		µg/L	1	8/9/2004 6:28:00 PM
Surr: 2,4,6-Tribromophenol	93.8	39-153		%REC	1	8/9/2004 6:28:00 PM
Surr: 2-Fluorobiphenyl	85.3	40-147		%REC	1	8/9/2004 6:28:00 PM
Surr: 2-Fluorophenol	32.6	21-110		%REC	1	8/9/2004 6:28:00 PM
Surr: 4-Terphenyl-d14	88.9	39-141		%REC	1	8/9/2004 6:28:00 PM
Surr: Nitrobenzene-d5	79.6	37-140		%REC	1	8/9/2004 6:28:00 PM
Surr: Phenol-d6	20.4	11-100		%REC	1	8/9/2004 6:28:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
2-Butanone	ND	10		µg/L	1	8/12/2004 12:48:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	8/12/2004 12:48:00 PM
2-Hexanone	ND	10		µg/L	1	8/12/2004 12:48:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	8/12/2004 12:48:00 PM
Acetone	ND	10		µg/L	1	8/12/2004 12:48:00 PM
Benzene	80	5.0		µg/L	1	8/12/2004 12:48:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Bromoform	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Bromomethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Carbon disulfide	ND	10		µg/L	1	8/12/2004 12:48:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 18, 2004

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL
Lab ID: 0408060-03

Client Sample ID: TEL-3
Collection Date: 8/4/2004 10:00:00 AM
Matrix: LIQUID

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Chloroethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Chloroform	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Chloromethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Ethylbenzene	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
m,p-Xylene	56	10		µg/L	1	8/12/2004 12:48:00 PM
Methylene chloride	ND	10		µg/L	1	8/12/2004 12:48:00 PM
Styrene	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Toluene	8.7	5.0		µg/L	1	8/12/2004 12:48:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Trichloroethene	ND	5.0		µg/L	1	8/12/2004 12:48:00 PM
Vinyl acetate	ND	10		µg/L	1	8/12/2004 12:48:00 PM
Vinyl chloride	ND	2.0		µg/L	1	8/12/2004 12:48:00 PM
Xylenes, Total	60	15		µg/L	1	8/12/2004 12:48:00 PM
Surr: 1,2-Dichloroethane-d4	86.1	71-126		%REC	1	8/12/2004 12:48:00 PM
Surr: 4-Bromofluorobenzene	98.0	74-125		%REC	1	8/12/2004 12:48:00 PM
Surr: Dibromofluoromethane	85.8	73-126		%REC	1	8/12/2004 12:48:00 PM
Surr: Toluene-d8	101	75-125		%REC	1	8/12/2004 12:48:00 PM
ANIONS BY ION CHROMATOGRAPHY						
				E300		Analyst: MG
Chloride	80.8	2.50		mg/L	5	8/10/2004 9:48:00 PM
Fluoride	3.32	0.100		mg/L	1	8/10/2004 9:20:00 PM
Sulfate	1,670	100		mg/L	100	8/10/2004 10:17:00 PM
Surr: Dichloroacetic acid (surr)	104	80-120		%REC	1	8/10/2004 9:20:00 PM
Surr: Dichloroacetic acid (surr)	107	80-120		%REC	5	8/10/2004 9:48:00 PM
Surr: Dichloroacetic acid (surr)	109	80-120		%REC	100	8/10/2004 10:17:00 PM
ALKALINITY						
				E310.1		Analyst: MG
Alkalinity, Bicarbonate (As CaCO ₃)	450	5.00		mg/L	1	8/13/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	8/13/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	8/13/2004
Alkalinity, Total (As CaCO ₃)	450	5.00		mg/L	1	8/13/2004
CYANIDE, TOTAL						
				E335.3		Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	8/9/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Aug 18 2004

CLIENT: Navajo Refining Company
 Work Order: 0408060
 Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9904 InstrumentID: ICP4500

MBLK Sample ID: MBLKW2-081004		Test Code: SW6020		Units: mg/L		Analysis Date: 08/10/04 18:02		
Client ID:		Run ID: ICP4500_040810A		SeqNo: 521548		Prep Date: 8/10/2004 DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	ND	0.010						
Barium	0.0008843	0.0050						J
Beryllium	ND	0.0020						
Boron	ND	0.020						
Cadmium	ND	0.0020						
Calcium	ND	0.50						
Cobalt	ND	0.0050						
Copper	0.0008465	0.0050						J
Iron	ND	0.20						
Magnesium	ND	0.20						
Manganese	ND	0.0050						
Molybdenum	ND	0.0050						
Potassium	ND	0.20						
Selenium	ND	0.0050						
Silver	ND	0.0050						
Sodium	ND	0.20						
Vanadium	ND	0.0050						
Zinc	0.001517	0.0050						J

MBLK Sample ID: MBLKW2-081004		Test Code: SW6020		Units: mg/L		Analysis Date: 08/12/04 14:37		
Client ID:		Run ID: ICP4500_040812A		SeqNo: 522782		Prep Date: 8/10/2004 DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Chromium	ND	0.0050						
Nickel	ND	0.0050						

MBLK Sample ID: MBLKW2-081004		Test Code: SW6020		Units: mg/L		Analysis Date: 08/11/04 20:11		
Client ID:		Run ID: ICP4500_040811A		SeqNo: 524080		Prep Date: 8/10/2004 DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic	ND	0.0050						
Lead	ND	0.0050						

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

J - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9904 InstrumentID: ICP4500

LCS	Sample ID: MLCSW2-081004	Test Code: SW6020			Units: mg/L		Analysis Date: 08/10/04 18:07		
Client ID:		Run ID:	ICP4500_040810A	SeqNo:	521549	Prep Date:	8/10/2004	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Aluminum	0.04382	0.010	0.05	0	87.6	79-126	0	0	
Barium	0.0464	0.0050	0.05	0	92.8	79.8-119	0	0	
Beryllium	0.05186	0.0020	0.05	0	104	78.9-120	0	0	
Boron	0.5054	0.020	0.5	0	101	80-120	0	0	
Cadmium	0.05259	0.0020	0.05	0	105	79.1-119	0	0	
Calcium	4.788	0.50	5	0	95.8	80-121	0	0	
Chromium	0.04599	0.0050	0.05	0	92	79.3-121	0	0	
Cobalt	0.04661	0.0050	0.05	0	93.2	82-121	0	0	
Copper	0.04689	0.0050	0.05	0	93.8	83-121	0	0	
Iron	4.827	0.20	5	0	96.5	80-120	0	0	
Magnesium	4.864	0.20	5	0	97.3	80-120	0	0	
Manganese	0.04819	0.0050	0.05	0	96.4	82-119	0	0	
Molybdenum	0.04491	0.0050	0.05	0	89.8	84.6-115	0	0	
Nickel	0.04846	0.0050	0.05	0	96.9	85-120	0	0	
Potassium	4.878	0.20	5	0	97.6	80-120	0	0	
Selenium	0.0533	0.0050	0.05	0	107	79.2-118	0	0	
Silver	0.04833	0.0050	0.05	0	96.7	83-117	0	0	
Sodium	4.69	0.20	5	0	93.8	82.4-120	0	0	
Thodium	0.04688	0.0050	0.05	0	93.8	82.1-119	0	0	
Tin	0.05307	0.0050	0.05	0	106	83-118	0	0	

LCS	Sample ID: MLCSW2-081004	Test Code: SW6020			Units: mg/L		Analysis Date: 08/11/04 20:16		
Client ID:		Run ID:	ICP4500_040811A	SeqNo:	524081	Prep Date:	8/10/2004	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Arsenic	0.05039	0.0050	0.05	0	101	80-121	0	0	
Lead	0.0431	0.0050	0.05	0	86.2	80-118	0	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

• Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

• Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9904		InstrumentID: ICP4500		Test Code: SW6020		Units: mg/L		Analysis Date: 08/11/04 19:48		
MS	Sample ID: 0408092-02CMS	Client ID:	Run ID: ICP4500_040811A	SeqNo: 522216	Prep Date: 8/10/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.05217	0.010	0.05	0.01352	77.3	79-126	0			S
Arsenic	0.05011	0.0050	0.05	0.001335	97.6	80-121	0			
Barium	0.1172	0.0050	0.05	0.07998	74.4	79.8-119	0			
Beryllium	0.05131	0.0020	0.05	0.00004934	103	78.9-120	0			
Boron	0.7363	0.020	0.5	0.1914	109	80-120	0			
Cadmium	0.0472	0.0020	0.05	0.00008581	94.2	79.1-119	0			
Calcium	107.1	0.50	5	105.7	28	80-121	0			SEO
Chromium	0.04428	0.0050	0.05	0.001494	85.6	79.3-121	0			
Cobalt	0.04302	0.0050	0.05	0.0003783	85.3	82-121	0			
Copper	0.04159	0.0050	0.05	0.0007875	81.6	83-121	0			S
Iron	4.928	0.20	5	0.3668	91.2	80-120	0			
Lead	0.04197	0.0050	0.05	0.0001027	83.7	80-118	0			
Magnesium	7.222	0.20	5	2.889	86.7	80-120	0			
Manganese	0.05603	0.0050	0.05	0.01314	85.8	82-119	0			
Molybdenum	0.04409	0.0050	0.05	0.003146	81.9	84.6-115	0			S
Nickel	0.04548	0.0050	0.05	0.003907	83.1	85-120	0			S
Potassium	10.53	0.20	5	5.98	91	80-120	0			
Selenium	0.05084	0.0050	0.05	0.002637	96.4	79.2-118	0			
Silver	0.04079	0.0050	0.05	0.00002997	81.5	83-117	0			S
Sodium	26.27	0.20	5	22.94	66.6	82.4-120	0			SO
Vanadium	0.04812	0.0050	0.05	0.003261	89.7	82.1-119	0			
Zinc	0.05588	0.0050	0.05	0.01259	86.6	83-118	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

L - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

R - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9904

InstrumentID: ICP4500

MSD	Sample ID: 0408092-02CMSD	Test Code: SW6020		Units: mg/L		Analysis Date: 08/11/04 19:53				
Client ID:		Run ID:	ICP4500_040811A	SeqNo:	522217	Prep Date:	8/10/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.05455	0.010	0.05	0.01352	82.1	79-126	0.05217	4.46	15	
Arsenic	0.05023	0.0050	0.05	0.001335	97.8	80-121	0.05011	0.239	15	
Barium	0.1182	0.0050	0.05	0.07998	76.4	79.8-119	0.1172	0.85	15	S
Beryllium	0.04963	0.0020	0.05	0.00004934	99.2	78.9-120	0.05131	3.33	15	
Boron	0.6872	0.020	0.5	0.1914	99.2	80-120	0.7363	6.9	15	
Cadmium	0.04759	0.0020	0.05	0.00008581	95	79.1-119	0.0472	0.823	15	
Calcium	107.1	0.50	5	105.7	28	80-121	107.1	0	15	SEO
Chromium	0.04493	0.0050	0.05	0.001494	86.9	79.3-121	0.04428	1.46	15	
Cobalt	0.04391	0.0050	0.05	0.0003783	87.1	82-121	0.04302	2.05	15	
Copper	0.04223	0.0050	0.05	0.0007875	82.9	83-121	0.04159	1.53	15	S
Iron	5.003	0.20	5	0.3668	92.7	80-120	4.928	1.51	15	
Lead	0.04197	0.0050	0.05	0.0001027	83.7	80-118	0.04197	0	15	
Magnesium	7.308	0.20	5	2.889	88.4	80-120	7.222	1.18	15	
Manganese	0.05655	0.0050	0.05	0.01314	86.8	82-119	0.05603	0.924	15	
Molybdenum	0.04484	0.0050	0.05	0.003146	83.4	84.6-115	0.04409	1.69	15	S
Nickel	0.04648	0.0050	0.05	0.003907	85.1	85-120	0.04548	2.17	15	
Potassium	10.83	0.20	5	5.98	97	80-120	10.53	2.81	15	
Selenium	0.04984	0.0050	0.05	0.002637	94.4	79.2-118	0.05084	1.99	15	
Silver	0.04124	0.0050	0.05	0.00002997	82.4	83-117	0.04079	1.1	15	S
Sodium	26.47	0.20	5	22.94	70.6	82.4-120	26.27	0.758	15	SO
Vanadium	0.04862	0.0050	0.05	0.003261	90.7	82.1-119	0.04812	1.03	15	
Zinc	0.05541	0.0050	0.05	0.01259	85.6	83-118	0.05588	0.845	15	

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CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9904 InstrumentID: ICP4500

DUP	Sample ID: 0408092-02CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 08/11/04 19:43		
Client ID:		Run ID:	ICP4500_040811A	SeqNo:	522215	Prep Date:	8/10/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	0.01242	0.010	0	0	0	0-0	0.01352	8.48 25
Arsenic	ND	0.0050	0	0	0	0-0	0.001335	0 25
Barium	0.07516	0.0050	0	0	0	0-0	0.07998	6.21 25
Beryllium	ND	0.0020	0	0	0	0-0	0.00004934	0 25
Boron	0.1872	0.020	0	0	0	0-0	0.1914	2.22 25
Cadmium	ND	0.0020	0	0	0	0-0	0.00008581	0 25
Chromium	0.0009325	0.0050	0	0	0	0-0	0.001494	0 25 J
Cobalt	0.0003565	0.0050	0	0	0	0-0	0.0003783	0 25 J
Copper	0.0007176	0.0050	0	0	0	0-0	0.0007875	0 25 J
Iron	0.3224	0.20	0	0	0	0-0	0.3668	12.9 25
Lead	ND	0.0050	0	0	0	0-0	0.0001027	0 25
Magnesium	2.867	0.20	0	0	0	0-0	2.889	0.764 25
Manganese	0.01244	0.0050	0	0	0	0-0	0.01314	5.47 25
Molybdenum	0.002996	0.0050	0	0	0	0-0	0.003146	0 25 J
Nickel	0.003649	0.0050	0	0	0	0-0	0.003907	0 25 J
Potassium	5.964	0.20	0	0	0	0-0	5.98	0.268 25
Selenium	0.002591	0.0050	0	0	0	0-0	0.002637	0 25 J
Silver	ND	0.0050	0	0	0	0-0	0.00002997	0 25
Vanadium	0.003238	0.0050	0	0	0	0-0	0.003261	0 25 J
Zinc	0.01075	0.0050	0	0	0	0-0	0.01259	15.8 25

DUP	Sample ID: 0408092-02CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 08/12/04 13:38		
Client ID:		Run ID:	ICP4500_040812A	SeqNo:	522665	Prep Date:	8/10/2004	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Calcium	98.92	5.0	0	0	0	0-0	98.23	0.7 25
Sodium	22.55	2.0	0	0	0	0-0	22.27	1.25 25

The following samples were analyzed in this batch: 0408060-01C 0408060-02C 0408060-03C

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CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9920 InstrumentID: Mercury

MBLK Sample ID: GBLKW1-081004 Test Code: SW7470 Units: mg/L Analysis Date: 08/11/04 11:26

Client ID: Run ID: MERCURY_040811A SeqNo: 521869 Prep Date: 8/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: GLCSW1-081004 Test Code: SW7470 Units: mg/L Analysis Date: 08/11/04 11:28

Client ID: Run ID: MERCURY_040811A SeqNo: 521870 Prep Date: 8/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00524	0.00020	0.005	0	105	83-115	0			

LCSD Sample ID: GLCSDW1-081004 Test Code: SW7470 Units: mg/L Analysis Date: 08/11/04 11:29

Client ID: Run ID: MERCURY_040811A SeqNo: 521871 Prep Date: 8/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00528	0.00020	0.005	0	106	83-115	0.00524	0.76	20	

MS Sample ID: 0408060-01CMS Test Code: SW7470 Units: mg/L Analysis Date: 08/11/04 11:36

Client ID: TEL-2 Run ID: MERCURY_040811A SeqNo: 521874 Prep Date: 8/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00497	0.00020	0.005	-0.00001	99.6	83-115	0			

MSD Sample ID: 0408060-01CMSD Test Code: SW7470 Units: mg/L Analysis Date: 08/11/04 11:38

Client ID: TEL-2 Run ID: MERCURY_040811A SeqNo: 521875 Prep Date: 8/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.005	0.00020	0.005	-0.00001	100	83-115	0.00497	0.602	20	

DUP Sample ID: 0408060-01CDUP Test Code: SW7470 Units: mg/L Analysis Date: 08/11/04 11:34

Client ID: TEL-2 Run ID: MERCURY_040811A SeqNo: 521873 Prep Date: 8/10/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.00001	0	20	

The following samples were analyzed in this batch: 0408060-01C 0408060-02C 0408060-03C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

! - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

! Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9873 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-040806	Test Code: SW8270		Units: µg/L		Analysis Date: 08/09/04 12:17		
Client ID:	Run ID: SV-3_040809B	SeqNo:	521379	Prep Date:	8/6/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	ND	10						
2,4,5-Trichlorophenol	ND	10						
2,4,6-Trichlorophenol	ND	10						
2-Methylnaphthalene	ND	10						
2-Methylphenol	ND	10						
2-Nitroaniline	ND	10						
2-Nitrophenol	ND	10						
3-Nitroaniline	ND	10						
4-Methylphenol	ND	10						
4-Nitroaniline	ND	10						
4-Nitrophenol	ND	10						
Acenaphthene	ND	10						
Acenaphthylene	ND	10						
Aniline	ND	10						
Anthracene	ND	10						
Benz(a)anthracene	ND	10						
Benzidine	ND	10						
Hexachloroethane	ND	10						
Indeno(1,2,3-cd)pyrene	ND	10						
Isophorone	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitrosodiphenylamine	ND	10						
Naphthalene	ND	10						
Nitrobenzene	ND	10						
Pentachlorophenol	ND	10						
Phenanthrene	ND	10						
Phenol	ND	10						
Pyrene	ND	10						
1,4-Dichlorobenzene-d4	40	0						
Acenaphthene-d10	40	0						
Chrysene-d12	40	0						
Naphthalene-d8	40	0						
Perylene-d12	40	0						
Phenanthrene-d10	40	0						
Surr: 2,4,6-Tribromophenol	91.01	10	100	0	91	39-153	0	
Surr: 2-Fluorobiphenyl	89.76	10	100	0	89.8	40-147	0	
Surr: 2-Fluorophenol	38.44	10	100	0	38.4	21-110	0	
Surr: 4-Terphenyl-d14	96.71	10	100	0	96.7	39-141	0	
Surr: Nitrobenzene-d5	90.5	10	100	0	90.5	37-140	0	
Surr: Phenol-d6	22.89	10	100	0	22.9	11-100	0	

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H - Referenced analyte value is > 4 times amount spiked

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9873 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-040806	Test Code: SW8270		Units: µg/L		Analysis Date: 08/09/04 12:42		
Client ID:		Run ID:	SV-3_040809B	SeqNo:	521380	Prep Date:	8/6/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %RPD Qual
1,2,4-Trichlorobenzene	52.19	10	50	0	104	50-115	0	0
2,4,5-Trichlorophenol	102.9	10	100	0	103	68-128	0	0
2,4,6-Trichlorophenol	101	10	100	0	101	66-125	0	0
2-Methylnaphthalene	48.92	10	50	0	97.8	47-122	0	0
2-Methylphenol	71.61	10	100	0	71.6	51-115	0	0
2-Nitroaniline	53.19	10	50	0	106	64-128	0	0
2-Nitrophenol	99.1	10	100	0	99.1	60-119	0	0
3-Nitroaniline	45.77	10	50	0	91.5	61-118	0	0
4-Methylphenol	93.11	10	150	0	62.1	44-115	0	0
4-Nitroaniline	50.87	10	50	0	102	61-123	0	0
4-Nitrophenol	32.36	10	100	0	32.4	17-100	0	0
Acenaphthene	52.03	10	50	0	104	68-115	0	0
Acenaphthylene	52.35	10	50	0	105	67-116	0	0
Aniline	40.99	10	50	0	82	40-130	0	0
Anthracene	55.9	10	50	0	112	70-129	0	0
Benz(a)anthracene	53.4	10	50	0	107	55-131	0	0
Benzidine	26.98	10	50	0	54	10-115	0	0
Hexachloroethane	47.89	10	50	0	95.8	46-115	0	0
Indeno(1,2,3-cd)pyrene	57.92	10	50	0	116	42-123	0	0
Isophorone	55.06	10	50	0	110	63-117	0	0
N-Nitrosodi-n-propylamine	51.27	10	50	0	103	67-115	0	0
N-Nitrosodimethylamine	22.84	10	50	0	45.7	28-115	0	0
N-Nitrosodiphenylamine	58.72	10	50	0	117	72-144	0	0
Naphthalene	51.59	10	50	0	103	52-115	0	0
Nitrobenzene	51.96	10	50	0	104	65-115	0	0
Pentachlorophenol	80.78	10	100	0	80.8	65-123	0	0
Phenanthrene	53.3	10	50	0	107	69-119	0	0
Phenol	32.29	10	100	0	32.3	16-115	0	0
Pyrene	53.8	10	50	0	108	51-130	0	0
Surr: 2,4,6-Tribromophenol	97.34	10	100	0	97.3	39-153	0	0
Surr: 2-Fluorobiphenyl	91.74	10	100	0	91.7	40-147	0	0
Surr: 2-Fluorophenol	47.63	10	100	0	47.6	21-110	0	0
Surr: 4-Terphenyl-d14	100.9	10	100	0	101	39-141	0	0
Surr: Nitrobenzene-d5	99.96	10	100	0	100	37-140	0	0
Surr: Phenol-d6	28.37	10	100	0	28.4	11-100	0	0

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CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9873 InstrumentID: SV-3

LCSD Sample ID: SLCSDW1-040806		Test Code: SW8270		Units: µg/L		Analysis Date: 08/09/04 13:06		
Client ID:		Run ID: SV-3_040809B		SeqNo:	521381	Prep Date:	8/6/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
1,2,4-Trichlorobenzene	50.83	10	50	0	102	50-115	52.19	2.65 30
2,4,5-Trichlorophenol	103.6	10	100	0	104	68-128	102.9	0.626 30
2,4,6-Trichlorophenol	102.5	10	100	0	103	66-125	101	1.47 30
2-Methylnaphthalene	49.66	10	50	0	99.3	47-122	48.92	1.51 30
2-Methylphenol	76	10	100	0	76	51-115	71.61	5.96 30
2-Nitroaniline	55	10	50	0	110	64-128	53.19	3.34 30
2-Nitrophenol	100.9	10	100	0	101	60-119	99.1	1.77 30
3-Nitroaniline	45.92	10	50	0	91.8	61-118	45.77	0.335 30
4-Methylphenol	99.51	10	150	0	66.3	44-115	93.11	6.64 30
4-Nitroaniline	51.3	10	50	0	103	61-123	50.87	0.835 30
4-Nitrophenol	31.4	10	100	0	31.4	17-100	32.36	3.02 30
Acenaphthene	52.62	10	50	0	105	68-115	52.03	1.13 30
Acenaphthylene	52.57	10	50	0	105	67-116	52.35	0.435 30
Aniline	47.02	10	50	0	94	40-130	40.99	13.7 30
Anthracene	54.8	10	50	0	110	70-129	55.9	1.99 30
Benz(a)anthracene	53.93	10	50	0	108	55-131	53.4	0.989 30
Benzidine	41.82	10	50	0	83.6	10-115	26.98	43.1 30 R
Hexachloroethane	48.29	10	50	0	96.6	46-115	47.89	0.827 30
Indeno(1,2,3-cd)pyrene	56.02	10	50	0	112	42-123	57.92	3.34 30
Isophorone	56.34	10	50	0	113	63-117	55.06	2.31 30
N-Nitrosodi-n-propylamine	57.38	10	50	0	115	67-115	51.27	11.3 30
N-Nitrosodimethylamine	23.26	10	50	0	46.5	28-115	22.84	1.83 30
N-Nitrosodiphenylamine	58.53	10	50	0	117	72-144	58.72	0.318 30
Naphthalene	51.1	10	50	0	102	52-115	51.59	0.951 30
Nitrobenzene	51.91	10	50	0	104	65-115	51.96	0.106 30
Pentachlorophenol	87.12	10	100	0	87.1	65-123	80.78	7.55 30
Phenanthrene	52.29	10	50	0	105	69-119	53.3	1.9 30
Phenol	30.12	10	100	0	30.1	16-115	32.29	6.96 30
Pyrene	53.3	10	50	0	107	51-130	53.8	0.917 30
Surr: 2,4,6-Tribromophenol	97.01	10	100	0	97	39-153	97.34	0.34 30
Surr: 2-Fluorobiphenyl	91.42	10	100	0	91.4	40-147	91.74	0.354 30
Surr: 2-Fluorophenol	46.33	10	100	0	46.3	21-110	47.63	2.76 30
Surr: 4-Terphenyl-d14	101.4	10	100	0	101	39-141	100.9	0.49 30
Surr: Nitrobenzene-d5	99.03	10	100	0	99	37-140	99.96	0.932 30
Surr: Phenol-d6	27.91	10	100	0	27.9	11-100	28.37	1.64 30

The following samples were analyzed in this batch:

0408060-01E 0408060-02E 0408060-03E

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22337	InstrumentID: VOA1	Test Code: SW8260		Units: µg/L		Analysis Date: 08/12/04 11:26		
MBLK	Sample ID: VBLKW-0812	Client ID:	Run ID: VOA1_040812A	SeqNo: 523137	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	46.49	5.0	50	0	93	71-126	0	
Surr: 4-Bromofluorobenzene	48.22	5.0	50	0	96.4	74-125	0	
Surr: Dibromofluoromethane	47.65	5.0	50	0	95.3	73-126	0	
Surr: Toluene-d8	49.39	5.0	50	0	98.8	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22337 InstrumentID: VOA1

LCS	Sample ID: VLCSW-0812	Test Code: SW8260		Units: µg/L		Analysis Date: 08/12/04 10:59		
Client ID:		Run ID:	VOA1_040812A	SeqNo:	523136	Prep Date:	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
1,1,1-Trichloroethane	52.18	5.0	50	0	104	75.2-120	0	
1,1,2,2-Tetrachloroethane	50.14	5.0	50	0	100	72.4-121	0	
1,1,2-Trichloroethane	53.13	5.0	50	0	106	80-120	0	
1,1-Dichloroethane	53.43	5.0	50	0	107	76.9-120	0	
1,1-Dichloroethene	53.92	5.0	50	0	108	72.6-123	0	
1,2-Dichloroethane	51.02	5.0	50	0	102	80-120	0	
2-Butanone	120.5	10	100	0	120	69-131	0	
2-Chloroethyl vinyl ether	105.9	10	100	0	106	60-135	0	
2-Hexanone	99.24	10	100	0	99.2	55.6-126	0	
4-Methyl-2-pentanone	97.84	10	100	0	97.8	67.4-121	0	
Acetone	102.3	10	100	0	102	64.4-140	0	
Benzene	54.4	5.0	50	0	109	80-120	0	
Bromodichloromethane	48.97	5.0	50	0	97.9	80-120	0	
Bromoform	48.22	5.0	50	0	96.4	77.9-121	0	
Bromomethane	51.01	5.0	50	0	102	63.3-137	0	
Carbon disulfide	104.2	10	100	0	104	74.1-123	0	
Carbon tetrachloride	50.58	5.0	50	0	101	74.7-120	0	
Chlorobenzene	50.97	5.0	50	0	102	80-120	0	
Chloroethane	51.69	5.0	50	0	103	74.7-126	0	
Chloroform	53.03	5.0	50	0	106	80-120	0	
Chloromethane	46.48	5.0	50	0	93	64.5-132	0	
cis-1,3-Dichloropropene	52.77	5.0	50	0	106	80-120	0	
Dibromochloromethane	51.75	5.0	50	0	104	80-120	0	
Ethylbenzene	51.74	5.0	50	0	103	80-120	0	
m,p-Xylene	102.9	10	100	0	103	80-120	0	
Methylene chloride	50.57	10	50	0	101	76.2-120	0	
Styrene	50.38	5.0	50	0	101	80-120	0	
Tetrachloroethene	50.9	5.0	50	0	102	68.5-130	0	
Toluene	55.33	5.0	50	0	111	80-120	0	
trans-1,3-Dichloropropene	51.75	5.0	50	0	103	80-120	0	
Trichloroethene	48.77	5.0	50	0	97.5	78.9-120	0	
Vinyl acetate	130.7	10	100	0	131	62.4-133	0	
Vinyl chloride	50.25	2.0	50	0	100	72.7-128	0	
Xylenes, Total	153.8	15	150	0	103	80-120	0	
Surr: 1,2-Dichloroethane-d4	46.67	5.0	50	0	93.3	71-126	0	
Surr: 4-Bromofluorobenzene	50.68	5.0	50	0	101	74-125	0	
Surr: Dibromofluoromethane	47.71	5.0	50	0	95.4	73-126	0	
Surr: Toluene-d8	50.14	5.0	50	0	100	75-125	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22337 InstrumentID: VOA1

MS	Sample ID: 0408060-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 08/12/04 14:37		
Client ID:	TEL-2	Run ID:	VOA1_040812A	SeqNo:	523140	Prep Date:	DF:	25
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD
1,1,1-Trichloroethane	1191	120	1250	0	95.3	75.2-120	0	0
1,1,2,2-Tetrachloroethane	1316	120	1250	0	105	72.4-121	0	0
1,1,2-Trichloroethane	1363	120	1250	0	109	80-120	0	0
1,1-Dichloroethane	1327	120	1250	0	106	76.9-120	0	0
1,1-Dichloroethene	1245	120	1250	0	99.6	72.6-123	0	0
1,2-Dichloroethane	1292	120	1250	0	103	80-120	0	0
2-Butanone	2979	250	2500	0	119	69-131	0	0
2-Chloroethyl vinyl ether	1911	250	2500	0	76.4	60-135	0	0
2-Hexanone	2573	250	2500	0	103	55.6-126	0	0
4-Methyl-2-pentanone	2624	250	2500	0	105	67.4-121	0	0
Acetone	2266	250	2500	0	90.6	64.4-140	0	0
Benzene	2761	120	1250	1420	107	80-120	0	0
Bromodichloromethane	1217	120	1250	0	97.3	80-120	0	0
Bromoform	1258	120	1250	0	101	77.9-121	0	0
Bromomethane	839.7	120	1250	0	67.2	63.3-137	0	0
Carbon disulfide	2382	250	2500	151.9	89.2	74.1-123	0	0
Carbon tetrachloride	1118	120	1250	0	89.4	74.7-120	0	0
Chlorobenzene	1196	120	1250	0	95.7	80-120	0	0
Chloroethane	1253	120	1250	0	100	74.7-126	0	0
Chloroform	1321	120	1250	0	106	80-120	0	0
Chloromethane	1085	120	1250	0	86.8	64.5-132	0	0
cis-1,3-Dichloropropene	1305	120	1250	0	104	80-120	0	0
Dibromochloromethane	1288	120	1250	0	103	80-120	0	0
Ethylbenzene	1280	120	1250	0	102	80-120	0	0
m,p-Xylene	2618	250	2500	157.4	98.4	80-120	0	0
Methylene chloride	1174	250	1250	0	93.9	76.2-120	0	0
Styrene	1265	120	1250	0	101	80-120	0	0
Tetrachloroethene	1183	120	1250	0	94.6	68.5-130	0	0
Toluene	1431	120	1250	89.34	107	80-120	0	0
trans-1,3-Dichloropropene	1283	120	1250	0	103	80-120	0	0
Trichloroethene	1154	120	1250	0	92.3	78.9-120	0	0
Vinyl acetate	3424	250	2500	0	137	62.4-133	0	S
Vinyl chloride	1164	50	1250	0	93.1	72.7-128	0	0
Xylenes, Total	3889	380	3750	157.4	99.5	80-120	0	0
Surr: 1,2-Dichloroethane-d4	1159	120	1250	0	92.7	71-126	0	0
Surr: 4-Bromofluorobenzene	1263	120	1250	0	101	74-125	0	0
Surr: Dibromofluoromethane	1220	120	1250	0	97.6	73-126	0	0
Surr: Toluene-d8	1227	120	1250	0	98.1	75-125	0	0

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22337 InstrumentID: VOA1

MSD	Sample ID: 0408060-01AMSD			Test Code: SW8260	Units: µg/L		Analysis Date: 08/12/04 15:04			
Client ID:	TEL-2	Run ID: VOA1_040812A		SeqNo:	523141	Prep Date:	DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1125	120	1250	0	90	75.2-120	1191	5.67	20	
1,1,2,2-Tetrachloroethane	1252	120	1250	0	100	72.4-121	1316	4.99	20	
1,1,2-Trichloroethane	1303	120	1250	0	104	80-120	1363	4.51	20	
1,1-Dichloroethane	1295	120	1250	0	104	76.9-120	1327	2.45	20	
1,1-Dichloroethylene	1141	120	1250	0	91.3	72.6-123	1245	8.71	20	
1,2-Dichloroethane	1261	120	1250	0	101	80-120	1292	2.46	20	
2-Butanone	2916	250	2500	0	117	69-131	2979	2.13	20	
2-Chloroethyl vinyl ether	1434	250	2500	0	57.3	60-135	1911	28.5	20	SR
2-Hexanone	2529	250	2500	0	101	55.6-126	2573	1.74	20	
4-Methyl-2-pentanone	2576	250	2500	0	103	67.4-121	2624	1.83	20	
Acetone	2169	250	2500	0	86.8	64.4-140	2266	4.35	20	
Benzene	2730	120	1250	1420	105	80-120	2761	1.13	20	
Bromodichloromethane	1187	120	1250	0	95	80-120	1217	2.42	20	
Bromoform	1243	120	1250	0	99.5	77.9-121	1258	1.18	20	
Bromomethane	937.3	120	1250	0	75	63.3-137	839.7	11	20	
Carbon disulfide	2277	250	2500	151.9	85	74.1-123	2382	4.51	20	
Carbon tetrachloride	1033	120	1250	0	82.7	74.7-120	1118	7.87	20	
Chlorobenzene	1234	120	1250	0	98.7	80-120	1196	3.09	20	
Chloroethane	1222	120	1250	0	97.7	74.7-126	1253	2.57	20	
Chloroform	1280	120	1250	0	102	80-120	1321	3.19	20	
Chloromethane	1098	120	1250	0	87.8	64.5-132	1085	1.14	20	
cis-1,3-Dichloropropene	1299	120	1250	0	104	80-120	1305	0.463	20	
Dibromochloromethane	1285	120	1250	0	103	80-120	1288	0.178	20	
Ethylbenzene	1221	120	1250	0	97.7	80-120	1280	4.71	20	
m,p-Xylene	2603	250	2500	157.4	97.8	80-120	2618	0.596	20	
Methylene chloride	1228	250	1250	0	98.3	76.2-120	1174	4.51	20	
Styrene	1339	120	1250	0	107	80-120	1265	5.72	20	
Tetrachloroethene	1083	120	1250	0	86.7	68.5-130	1183	8.8	20	
Toluene	1378	120	1250	89.34	103	80-120	1431	3.76	20	
trans-1,3-Dichloropropene	1283	120	1250	0	103	80-120	1283	0.00763	20	
Trichloroethene	1113	120	1250	0	89.1	78.9-120	1154	3.55	20	
Vinyl acetate	3371	250	2500	0	135	62.4-133	3424	1.56	20	S
Vinyl chloride	1100	50	1250	0	88	72.7-128	1164	5.71	20	
Xylenes, Total	3879	380	3750	157.4	99.2	80-120	3889	0.265	20	
Surr: 1,2-Dichloroethane-d4	1166	120	1250	0	93.3	71-126	1159	0.618	20	
Surr: 4-Bromofluorobenzene	1267	120	1250	0	101	74-125	1263	0.293	20	
Surr: Dibromofluoromethane	1201	120	1250	0	96	73-126	1220	1.58	20	
Surr: Toluene-d8	1270	120	1250	0	102	75-125	1227	3.47	20	

The following samples were analyzed in this batch:

0408060-01A 0408060-03A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22339 InstrumentID: VOA1

MBLK		Sample ID: VBLKW-0811		Test Code: SW8260		Units: µg/L		Analysis Date: 08/11/04 11:33		
Client ID:		Run ID: VOA1_040811A		SeqNo: 522379		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	48.78	5.0	50	0	97.6	71-126		0		
Surr: 4-Bromofluorobenzene	46.88	5.0	50	0	93.8	74-125		0		
Surr: Dibromofluoromethane	48.35	5.0	50	0	96.7	73-126		0		
Surr: Toluene-d8	47.27	5.0	50	0	94.5	75-125		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

R - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

P - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22339 InstrumentID: VOA1

LCS	Sample ID: VLCSW-0811	Test Code: SW8260			Units: µg/L		Analysis Date: 08/11/04 12:01			
Client ID:		Run ID:	VOA1_040811A	SeqNo:	522380	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.72	5.0	50	0	99.4	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	48.93	5.0	50	0	97.9	72.4-121	0	0		
1,1,2-Trichloroethane	52	5.0	50	0	104	80-120	0	0		
1,1-Dichloroethane	49.67	5.0	50	0	99.3	76.9-120	0	0		
1,1-Dichloroethene	50.43	5.0	50	0	101	72.6-123	0	0		
1,2-Dichloroethane	51.28	5.0	50	0	103	80-120	0	0		
2-Butanone	109.9	10	100	0	110	69-131	0	0		
2-Chloroethyl vinyl ether	104.6	10	100	0	105	60-135	0	0		
2-Hexanone	106.5	10	100	0	107	55.6-126	0	0		
4-Methyl-2-pentanone	101.1	10	100	0	101	67.4-121	0	0		
Acetone	106.9	10	100	0	107	64.4-140	0	0		
Benzene	51.96	5.0	50	0	104	80-120	0	0		
Bromodichloromethane	49.93	5.0	50	0	99.9	80-120	0	0		
Bromoform	51.26	5.0	50	0	103	77.9-121	0	0		
Bromomethane	50.28	5.0	50	0	101	63.3-137	0	0		
Carbon disulfide	98.9	10	100	0	98.9	74.1-123	0	0		
Carbon tetrachloride	51.29	5.0	50	0	103	74.7-120	0	0		
Chlorobenzene	49.47	5.0	50	0	98.9	80-120	0	0		
Chloroethane	49.13	5.0	50	0	98.3	74.7-126	0	0		
Chloroform	47.29	5.0	50	0	94.6	80-120	0	0		
Chloromethane	45.79	5.0	50	0	91.6	64.5-132	0	0		
cis-1,3-Dichloropropene	52.38	5.0	50	0	105	80-120	0	0		
Dibromochloromethane	51.64	5.0	50	0	103	80-120	0	0		
Ethylbenzene	50.75	5.0	50	0	102	80-120	0	0		
m,p-Xylene	100.4	10	100	0	100	80-120	0	0		
Methylene chloride	46.07	10	50	0	92.1	76.2-120	0	0		
Styrene	53.21	5.0	50	0	106	80-120	0	0		
Tetrachloroethene	50.69	5.0	50	0	101	68.5-130	0	0		
Toluene	52.21	5.0	50	0	104	80-120	0	0		
trans-1,3-Dichloropropene	53.39	5.0	50	0	107	80-120	0	0		
Trichloroethene	50.19	5.0	50	0	100	78.9-120	0	0		
Vinyl acetate	122.6	10	100	0	123	62.4-133	0	0		
Vinyl chloride	47.5	2.0	50	0	95	72.7-128	0	0		
Xylenes, Total	154.1	15	150	0	103	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	46.06	5.0	50	0	92.1	71-126	0	0		
Surr: 4-Bromofluorobenzene	48.06	5.0	50	0	96.1	74-125	0	0		
Surr: Dibromofluoromethane	44.34	5.0	50	0	88.7	73-126	0	0		
Surr: Toluene-d8	48.91	5.0	50	0	97.8	75-125	0	0		

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

J - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22339 InstrumentID: VOA1

MS	Sample ID: 0408067-03AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 08/11/04 14:19		
Client ID:		Run ID:	VOA1_040811A	SeqNo:	522382	Prep Date:	DF: 20	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	919.6	100	1000	0	92	75.2-120	0	
1,1,2,2-Tetrachloroethane	1135	100	1000	0	114	72.4-121	0	
1,1,2-Trichloroethane	1092	100	1000	0	109	80-120	0	
1,1-Dichloroethane	1003	100	1000	0	100	76.9-120	0	
1,1-Dichloroethene	977.3	100	1000	0	97.7	72.6-123	0	
1,2-Dichloroethane	1029	100	1000	0	103	80-120	0	
2-Butanone	2598	200	2000	0	130	69-131	0	
2-Chloroethyl vinyl ether	1812	200	2000	0	90.6	60-135	0	
2-Hexanone	2567	200	2000	0	128	55.6-126	0	S
4-Methyl-2-pentanone	2681	200	2000	0	134	67.4-121	0	S
Acetone	2363	200	2000	477.1	94.3	64.4-140	0	
Benzene	1314	100	1000	293	102	80-120	0	
Bromodichloromethane	970.9	100	1000	0	97.1	80-120	0	
Bromoform	1096	100	1000	0	110	77.9-121	0	
Bromomethane	976.9	100	1000	0	97.7	63.3-137	0	
Carbon disulfide	1868	200	2000	0	93.4	74.1-123	0	
Carbon tetrachloride	891.8	100	1000	0	89.2	74.7-120	0	
Chlorobenzene	976	100	1000	0	97.6	80-120	0	
Chloroethane	878.2	100	1000	0	87.8	74.7-126	0	
Chloroform	975	100	1000	0	97.5	80-120	0	
Chloromethane	805.8	100	1000	0	80.6	64.5-132	0	
cis-1,3-Dichloropropene	1001	100	1000	0	100	80-120	0	
Dibromochloromethane	1056	100	1000	0	106	80-120	0	
Ethylbenzene	1874	100	1000	817.9	106	80-120	0	
m,p-Xylene	6457	200	2000	4215	112	80-120	0	
Methylene chloride	939.8	200	1000	0	94	76.2-120	0	
Styrene	1139	100	1000	0	114	80-120	0	
Tetrachloroethene	959.9	100	1000	0	96	68.5-130	0	
Toluene	5832	100	1000	4698	113	80-120	0	EO
trans-1,3-Dichloropropene	1056	100	1000	0	106	80-120	0	
Trichloroethene	938.3	100	1000	0	93.8	78.9-120	0	
Vinyl acetate	2743	200	2000	0	137	62.4-133	0	S
Vinyl chloride	853.6	40	1000	0	85.4	72.7-128	0	
Xylenes, Total	9609	300	3000	6283	111	80-120	0	
Surr: 1,2-Dichloroethane-d4	908.2	100	1000	0	90.8	71-126	0	
Surr: 4-Bromofluorobenzene	990.4	100	1000	0	99	74-125	0	
Surr: Dibromofluoromethane	912.7	100	1000	0	91.3	73-126	0	
Surr: Toluene-d8	959.7	100	1000	0	96	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22339 InstrumentID: VOA1

MSD	Sample ID: 0408067-03AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 08/11/04 14:47				
Client ID:	Run ID: VOA1_040811A	SeqNo:	522383	Prep Date:	DF: 20					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	915.4	100	1000	0	91.5	75.2-120	919.6	0.461	20	
1,1,2,2-Tetrachloroethane	1171	100	1000	0	117	72.4-121	1135	3.05	20	
1,1,2-Trichloroethane	1128	100	1000	0	113	80-120	1092	3.25	20	
1,1-Dichloroethane	959	100	1000	0	95.9	76.9-120	1003	4.52	20	
1,1-Dichloroethene	978.2	100	1000	0	97.8	72.6-123	977.3	0.0931	20	
1,2-Dichloroethane	1058	100	1000	0	106	80-120	1029	2.87	20	
2-Butanone	2617	200	2000	0	131	69-131	2598	0.703	20	
2-Chloroethyl vinyl ether	1519	200	2000	0	76	60-135	1812	17.6	20	
2-Hexanone	2615	200	2000	0	131	55.6-126	2567	1.83	20	S
4-Methyl-2-pentanone	2801	200	2000	0	140	67.4-121	2681	4.37	20	S
Acetone	2241	200	2000	477.1	88.2	64.4-140	2363	5.32	20	
Benzene	1385	100	1000	293	109	80-120	1314	5.26	20	
Bromodichloromethane	986.4	100	1000	0	98.6	80-120	970.9	1.59	20	
Bromoform	1101	100	1000	0	110	77.9-121	1096	0.435	20	
Bromomethane	924.2	100	1000	0	92.4	63.3-137	976.9	5.54	20	
Carbon disulfide	1861	200	2000	0	93.1	74.1-123	1868	0.348	20	
Carbon tetrachloride	968.7	100	1000	0	96.9	74.7-120	891.8	8.26	20	
Chlorobenzene	972.2	100	1000	0	97.2	80-120	976	0.39	20	
Chloroethane	921.7	100	1000	0	92.2	74.7-126	878.2	4.83	20	
Chloroform	977.3	100	1000	0	97.7	80-120	975	0.238	20	
Chloromethane	806.4	100	1000	0	80.6	64.5-132	805.8	0.0742	20	
cis-1,3-Dichloropropene	1060	100	1000	0	106	80-120	1001	5.7	20	
Dibromochloromethane	1071	100	1000	0	107	80-120	1056	1.43	20	
Ethylbenzene	1917	100	1000	817.9	110	80-120	1874	2.28	20	
m,p-Xylene	6525	200	2000	4215	115	80-120	6457	1.05	20	
Methylene chloride	884.2	200	1000	0	88.4	76.2-120	939.8	6.09	20	
Styrene	1167	100	1000	0	117	80-120	1139	2.42	20	
Tetrachloroethene	987.9	100	1000	0	98.8	68.5-130	959.9	2.87	20	
Toluene	5920	100	1000	4698	122	80-120	5832	1.5	20	SEO
trans-1,3-Dichloropropene	1055	100	1000	0	105	80-120	1056	0.111	20	
Trichloroethene	976.1	100	1000	0	97.6	78.9-120	938.3	3.95	20	
Vinyl acetate	2668	200	2000	0	133	62.4-133	2743	2.8	20	S
Vinyl chloride	866.9	40	1000	0	86.7	72.7-128	853.6	1.55	20	
Xylenes, Total	9730	300	3000	6283	115	80-120	9609	1.26	20	
Surr: 1,2-Dichloroethane-d4	881	100	1000	0	88.1	71-126	908.2	3.03	20	
Surr: 4-Bromofluorobenzene	1019	100	1000	0	102	74-125	990.4	2.86	20	
Surr: Dibromofluoromethane	895.9	100	1000	0	89.6	73-126	912.7	1.86	20	
Surr: Toluene-d8	1005	100	1000	0	100	75-125	959.7	4.57	20	

The following samples were analyzed in this batch:

0408060-01A 0408060-02A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

I - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

Q - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22263 InstrumentID: UV-2101PC

MBLK		Sample ID: WBLKW1-080704		Test Code: E335.3		Units: mg/L		Analysis Date: 08/09/04 0:00		
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Client ID:		Run ID: UV-2101PC_040809A		SeqNo:	520697	Prep Date:		DF: 1		
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
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Cyanide	ND	0.020							
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LCS		Sample ID: WLCSW1-080704		Test Code: E335.3		Units: mg/L		Analysis Date: 08/09/04 0:00		
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Client ID:		Run ID: UV-2101PC_040809A		SeqNo:	520698	Prep Date:		DF: 1		
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
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Cyanide	0.2003	0.020	0.2	0	100	80-120	0		
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MS		Sample ID: 0408018-01DMS		Test Code: E335.3		Units: mg/L		Analysis Date: 08/09/04 0:00		
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Client ID:		Run ID: UV-2101PC_040809A		SeqNo:	520711	Prep Date:		DF: 1		
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
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Cyanide	0.1996	0.020	0.2	-0.00033	100	75-125	0		
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MSD		Sample ID: 0408018-01DMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 08/09/04 0:00		
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Client ID:		Run ID: UV-2101PC_040809A		SeqNo:	520712	Prep Date:		DF: 1		
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
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Cyanide	0.2048	0.020	0.2	-0.00033	103	75-125	0.1996	2.57	25
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DUP		Sample ID: 0408018-01DDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 08/09/04 0:00		
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Client ID:		Run ID: UV-2101PC_040809A		SeqNo:	520710	Prep Date:		DF: 1		
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
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Cyanide	ND	0.020	0	0	0	0-0	-0.00033	0	20
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The following samples were analyzed in this batch:

0408060-01D	0408060-02D	0408060-03D
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ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

L - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22302	InstrumentID: IC201								
MLBK	Sample ID: WBLKW1-080904	Test Code: E300				Units: mg/L		Analysis Date: 08/09/04 18:40	
Client ID:		Run ID: IC201_040809A	SeqNo:	521498	Prep Date:			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	ND	0.50							
Fluoride	ND	0.10							
Sulfate	ND	1.0							
Surr: Dichloroacetic acid (surr)	5.24	0.10	5	0	105	80-120		0	
LCS	Sample ID: WLCSW1-080904	Test Code: E300				Units: mg/L		Analysis Date: 08/09/04 19:08	
Client ID:		Run ID: IC201_040809A	SeqNo:	521500	Prep Date:			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	9.15	0.50	10	0	91.5	80-120		0	
Fluoride	1.9	0.10	2	0	95	80-120		0	
Sulfate	9.73	1.0	10	0	97.3	80-120		0	
Surr: Dichloroacetic acid (surr)	5.59	0.10	5	0	112	80-120		0	
LCSD	Sample ID: WLCSDW1-08090	Test Code: E300				Units: mg/L		Analysis Date: 08/09/04 19:37	
Client ID:		Run ID: IC201_040809A	SeqNo:	521502	Prep Date:			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	9.14	0.50	10	0	91.4	80-120		9.15	0.109 20
Fluoride	1.91	0.10	2	0	95.5	80-120		1.9	0.525 20
Sulfate	9.73	1.0	10	0	97.3	80-120		9.73	0 20
Surr: Dichloroacetic acid (surr)	5.59	0.10	5	0	112	80-120		5.59	0 20
MS	Sample ID: 0408060-01BMS	Test Code: E300				Units: mg/L		Analysis Date: 08/10/04 16:35	
Client ID: TEL-2		Run ID: IC201_040809A	SeqNo:	521634	Prep Date:			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	269	0.50	10	262	69.1	75-125		0	SEO
Fluoride	3.15	0.10	2	1.33	91	75-125		0	
Sulfate	926.4	1.0	10	930.8	-44.1	75-125		0	SEO
Surr: Dichloroacetic acid (surr)	5.32	0.10	5	0	106	80-120		0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

L - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

Q - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22302 InstrumentID: IC201

MSD Sample ID: 0408060-01BMSD Test Code: E300 Units: mg/L Analysis Date: 08/10/04 17:03

Client ID: TEL-2 Run ID: IC201_040809A SeqNo: 521635 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	268.3	0.50	10	262	62.3	75-125	269	0.253	20	SEO
Fluoride	3.15	0.10	2	1.33	91	75-125	3.15	0	20	
Sulfate	931.2	1.0	10	930.8	3.9	75-125	926.4	0.517	20	SEO
Surr: Dichloroacetic acid (surr)	5.13	0.10	5	0	103	80-120	5.32	3.64	20	

DUP Sample ID: 0407349-28CDUP Test Code: E300 Units: mg/L Analysis Date: 08/09/04 21:31

Client ID: Run ID: IC201_040809A SeqNo: 521509 Prep Date: DF: 1000

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	28060	500	0	0	0	0-0	28040	0.0713	20	
Fluoride	ND	100	0	0	0	0-0	0	0	20	
Sulfate	2560	1,000	0	0	0	0-0	2580	0.778	20	
Surr: Dichloroacetic acid (surr)	5480	100	5000	0	110	80-120	5440	0.733	20	

DUP Sample ID: 0408060-01BDUP Test Code: E300 Units: mg/L Analysis Date: 08/10/04 16:06

Client ID: TEL-2 Run ID: IC201_040809A SeqNo: 521633 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	1.38	0.10	0	0	0	0-0	1.33	3.69	20	
Surr: Dichloroacetic acid (surr)	5.14	0.10	5	0	103	80-120	5.31	3.25	20	

DUP Sample ID: 0408060-01BDUP Test Code: E300 Units: mg/L Analysis Date: 08/10/04 18:29

Client ID: TEL-2 Run ID: IC201_040809A SeqNo: 521638 Prep Date: DF: 20

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	211.4	10	0	0	0	0-0	211.4	0	20	
Fluoride	3.6	2.0	0	0	0	0-0	3.6	0	20	
Sulfate	733.4	20	0	0	0	0-0	730	0.465	20	
Surr: Dichloroacetic acid (surr)	106.8	2.0	100	0	107	80-120	107.2	0.374	20	

DUP Sample ID: 0408060-03BDUP Test Code: E300 Units: mg/L Analysis Date: 08/10/04 22:45

Client ID: TEL-3 Run ID: IC201_040809A SeqNo: 521647 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	175	50	0	0	0	0-0	175	0	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1671	100	0	0	0	0-0	1670	0.0599	20	
Surr: Dichloroacetic acid (surr)	553	10	500	0	111	80-120	545	1.46	20	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22302 InstrumentID: IC201

The following samples were analyzed in this batch:

0408060-01B 0408060-02B 0408060-03B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0408060
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22375 InstrumentID: WetChem

MBLK Sample ID: WBLKW1-081304 Test Code: E310.1 Units: mg/L Analysis Date: 08/13/04 0:00

Client ID: Run ID: WETCHEM_040813B SeqNo: 523247 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: WLCSW1-081304 Test Code: E310.1 Units: mg/L Analysis Date: 08/13/04 0:00

Client ID: Run ID: WETCHEM_040813B SeqNo: 523248 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	1	0	0-0	0	0		
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0	0		

DUP Sample ID: 0408033-01BDUP Test Code: E310.1 Units: mg/L Analysis Date: 08/13/04 0:00

Client ID: Run ID: WETCHEM_040813B SeqNo: 523254 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	180	5.0	0	0	0	0-0	180	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	180	5.0	0	0	0	0-0	180	0	20	

The following samples were analyzed in this batch: 0408060-01B 0408060-02B 0408060-03B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

- Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

- Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range



e-Lab Analytical, Inc.

10450 Standcliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

August 06, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0407269**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 1 sample on 7/23/2004 8:30:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 30.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: August 06, 2004

CLIENT: Navajo Refining Company

Project: NCL/TEL

Work Order: 0407269

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0407269-01	TEL-4	Water		7/22/2004 09:30	7/23/2004 08:30	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0407269

Case Narrative

Batch 9760 Metals MS/MSD was an unrelated sample.

Batch R22126 Volatiles MS/MSD was an unrelated sample.

Batch R22159 Volatiles MS/MSD was an unrelated sample.

e-Lab Analytical, Inc.

Date: August 06, 2004

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL
Lab ID: 0407269-01

Client Sample ID: TEL-4
Collection Date: 7/22/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	8/3/2004 3:23:59 PM
ICP METALS, TOTAL			SW6020			
Aluminum	ND	0.0100		mg/L	1	7/31/2004 7:39:00 PM
Arsenic	0.0116	0.00500		mg/L	1	7/31/2004 7:39:00 PM
Barium	0.100	0.00500		mg/L	1	7/31/2004 7:39:00 PM
Beryllium	ND	0.00200		mg/L	1	7/31/2004 7:39:00 PM
Boron	0.568	0.0200		mg/L	1	8/4/2004 12:57:00 PM
Cadmium	ND	0.00100		mg/L	1	7/31/2004 7:39:00 PM
Calcium	232	25.0		mg/L	50	7/31/2004 6:18:00 PM
Chromium	ND	0.00200		mg/L	1	7/31/2004 7:39:00 PM
Cobalt	ND	0.00200		mg/L	1	7/31/2004 7:39:00 PM
Copper	0.00287	0.00200		mg/L	1	7/31/2004 7:39:00 PM
Iron	0.871	0.200		mg/L	1	7/31/2004 7:39:00 PM
Lead	ND	0.00500		mg/L	1	7/31/2004 7:39:00 PM
Magnesium	193	2.00		mg/L	10	7/31/2004 7:25:00 PM
Manganese	0.390	0.0500		mg/L	10	7/31/2004 7:25:00 PM
Molybdenum	ND	0.00500		mg/L	1	7/31/2004 7:39:00 PM
Nickel	0.00996	0.00500		mg/L	1	7/31/2004 7:39:00 PM
Potassium	0.328	0.200		mg/L	1	7/31/2004 7:39:00 PM
Selenium	0.00629	0.00500		mg/L	1	7/31/2004 7:39:00 PM
Silver	ND	0.00500		mg/L	1	7/31/2004 7:39:00 PM
Sodium	251	2.00		mg/L	10	7/31/2004 7:25:00 PM
Vanadium	ND	0.00500		mg/L	1	7/31/2004 7:39:00 PM
Zinc	0.00806	0.00500		mg/L	1	7/31/2004 7:39:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/26/2004 9:37:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/26/2004 9:37:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
2-Methylphenol	ND	10		µg/L	1	7/26/2004 9:37:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/26/2004 9:37:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/26/2004 9:37:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/26/2004 9:37:00 PM
4-Methylphenol	ND	10		µg/L	1	7/26/2004 9:37:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/26/2004 9:37:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Acenaphthene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Acenaphthylene	ND	10		µg/L	1	7/26/2004 9:37:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 06, 2004

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL
Lab ID: 0407269-01

Client Sample ID: TEL-4
Collection Date: 7/22/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Anthracene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Benzidine	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Hexachloroethane	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Isophorone	ND	10		µg/L	1	7/26/2004 9:37:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/26/2004 9:37:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/26/2004 9:37:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Naphthalene	13	10		µg/L	1	7/26/2004 9:37:00 PM
Nitrobenzene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Phenanthrene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Phenol	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Pyrene	ND	10		µg/L	1	7/26/2004 9:37:00 PM
Surr: 2,4,6-Tribromophenol	88.1	39-153		%REC	1	7/26/2004 9:37:00 PM
Surr: 2-Fluorobiphenyl	81.7	40-147		%REC	1	7/26/2004 9:37:00 PM
Surr: 2-Fluorophenol	37.1	21-110		%REC	1	7/26/2004 9:37:00 PM
Surr: 4-Terphenyl-d14	82.6	39-141		%REC	1	7/26/2004 9:37:00 PM
Surr: Nitrobenzene-d5	72.4	37-140		%REC	1	7/26/2004 9:37:00 PM
Surr: Phenol-d6	24.2	11-100		%REC	1	7/26/2004 9:37:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	820	50	µg/L	10
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** August 06, 2004

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL
Lab ID: 0407269-01

Client Sample ID: TEL-4
Collection Date: 7/22/2004 9:30:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Chloroethane	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Chloroform	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Chloromethane	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Ethylbenzene	150	5.0		µg/L	1	7/31/2004 8:54:00 AM
m,p-Xylene	290	10		µg/L	1	7/31/2004 8:54:00 AM
Methylene chloride	ND	10		µg/L	1	7/31/2004 8:54:00 AM
Styrene	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Toluene	30	5.0		µg/L	1	7/31/2004 8:54:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Trichloroethene	ND	5.0		µg/L	1	7/31/2004 8:54:00 AM
Vinyl acetate	ND	10		µg/L	1	7/31/2004 8:54:00 AM
Vinyl chloride	ND	2.0		µg/L	1	7/31/2004 8:54:00 AM
Xylenes, Total	300	15		µg/L	1	7/31/2004 8:54:00 AM
Surr: 1,2-Dichloroethane-d4	104	71-126		%REC	1	7/31/2004 8:54:00 AM
Surr: 1,2-Dichloroethane-d4	97.5	71-126		%REC	10	8/3/2004 7:32:00 AM
Surr: 4-Bromofluorobenzene	100	74-125		%REC	1	7/31/2004 8:54:00 AM
Surr: 4-Bromofluorobenzene	95.6	74-125		%REC	10	8/3/2004 7:32:00 AM
Surr: Dibromofluoromethane	96.7	73-126		%REC	10	8/3/2004 7:32:00 AM
Surr: Dibromofluoromethane	101	73-126		%REC	1	7/31/2004 8:54:00 AM
Surr: Toluene-d8	102	75-125		%REC	1	7/31/2004 8:54:00 AM
Surr: Toluene-d8	95.1	75-125		%REC	10	8/3/2004 7:32:00 AM

ANIONS BY ION CHROMATOGRAPHY

	E300	Analyst: MG
Chloride	413	mg/L
Fluoride	1.07	mg/L
Sulfate	493	mg/L
Nitrate/Nitrite (as N)	ND	mg/L
Surr: Dichloroacetic acid (surr)	107	%REC
Surr: Dichloroacetic acid (surr)	104	%REC

ALKALINITY

	E310.1	Analyst: HDO
Alkalinity, Bicarbonate (As CaCO ₃)	830	mg/L
Alkalinity, Carbonate (As CaCO ₃)	ND	mg/L
Alkalinity, Hydroxide (As CaCO ₃)	ND	mg/L
Alkalinity, Total (As CaCO ₃)	830	mg/L

CYANIDE, TOTAL

	E335.3	Analyst: LMD
Cyanide	ND	mg/L

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Aug 06 2004

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9760 InstrumentID: ICP4500

MBLK	Sample ID: MBLKW1-072704	Test Code: SW6020		Units: mg/L		Analysis Date: 07/30/04 16:05			
Client ID:		Run ID:	ICP4500_040730A	SeqNo:	517282	Prep Date:	7/27/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %	Qual
Aluminum	ND		0.010						
Arsenic	ND		0.0050						
Barium	ND		0.0050						
Beryllium	ND		0.0020						
Boron	ND		0.020						
Cadmium	ND		0.0020						
Calcium	0.0818		0.50						J
Chromium	ND		0.0050						
Cobalt	ND		0.0050						
Copper	ND		0.0050						
Iron	ND		0.20						
Lead	ND		0.0050						
Magnesium	ND		0.20						
Manganese	ND		0.0050						
Molybdenum	ND		0.0050						
Nickel	ND		0.0050						
Potassium	ND		0.20						
Selenium	ND		0.0050						
Silver	ND		0.0050						
Sodium	0.2584		0.20						
Vanadium	ND		0.0050						
Zinc	ND		0.0050						

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9760 InstrumentID: ICP4500

LCS	Sample ID: MLCSW1-072704	Test Code: SW6020		Units: mg/L		Analysis Date: 07/30/04 16:09		
Client ID:		Run ID:	ICP4500_040730A	SeqNo:	517283	Prep Date:	7/27/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	0.04805	0.010	0.05	0	96.1	79-126	0	
Arsenic	0.05165	0.0050	0.05	0	103	80-121	0	
Barium	0.04777	0.0050	0.05	0	95.5	79.8-119	0	
Beryllium	0.04815	0.0020	0.05	0	96.3	78.9-120	0	
Boron	0.4822	0.020	0	-0.001108	0	80-120	0	
Cadmium	0.05311	0.0020	0.05	0	106	79.1-119	0	
Calcium	5.091	0.50	5	0	102	80-121	0	
Chromium	0.04666	0.0050	0.05	0	93.3	79.3-121	0	
Cobalt	0.04845	0.0050	0.05	0	96.9	82-121	0	
Copper	0.04734	0.0050	0.05	0	94.7	83-121	0	
Iron	5.056	0.20	5	0	101	80-120	0	
Lead	0.04614	0.0050	0.05	0	92.3	80-118	0	
Magnesium	5.255	0.20	5	0	105	80-120	0	
Manganese	0.04684	0.0050	0.05	0	93.7	82-119	0	
Molybdenum	0.04377	0.0050	0.05	0	87.5	84.6-115	0	
Nickel	0.04852	0.0050	0.05	0	97	85-120	0	
Potassium	5.318	0.20	5	0	106	80-120	0	
Selenium	0.05268	0.0050	0.05	0	105	79.2-118	0	
Silver	0.04722	0.0050	0.05	0	94.4	83-117	0	
Sodium	5.085	0.20	5	0	102	82.4-120	0	
Vanadium	0.04701	0.0050	0.05	0	94	82.1-119	0	
Zinc	0.05398	0.0050	0.05	0	108	83-118	0	

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9760 InstrumentID: ICP4500

MS	Sample ID: 0407245-05CMS	Test Code: SW6020		Units: mg/L		Analysis Date: 07/31/04 14:48		
Client ID:		Run ID:	ICP4500_040731A	SeqNo:	517528	Prep Date:	7/27/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
Aluminum	0.04578	0.010	0.05	0.004601	82.4	79-126	0	
Arsenic	0.04991	0.0050	0.05	0	99.8	80-121	0	
Barium	0.08031	0.0050	0.05	0.03605	88.5	79.8-119	0	
Beryllium	0.0496	0.0020	0.05	0	99.2	78.9-120	0	
Boron	0.5789	0.020	0	0.1056	0	80-120	0	
Cadmium	0.04853	0.0020	0.05	0.0002884	96.5	79.1-119	0	
Calcium	98.74	0.50	5	93.77	99.4	80-121	0	EO
Chromium	0.04436	0.0050	0.05	0	88.7	79.3-121	0	
Cobalt	0.04276	0.0050	0.05	0.0007819	84	82-121	0	
Copper	0.04051	0.0050	0.05	0.000763	79.5	83-121	0	S
Iron	4.786	0.20	5	0.2484	90.8	80-120	0	
Lead	0.04366	0.0050	0.05	0	87.3	80-118	0	
Magnesium	10.02	0.20	5	5.498	90.4	80-120	0	
Manganese	0.06996	0.0050	0.05	0.02633	87.3	82-119	0	
Molybdenum	0.0442	0.0050	0.05	0	88.4	84.6-115	0	
Nickel	0.04491	0.0050	0.05	0.003507	82.8	85-120	0	S
Potassium	13.45	0.20	5	8.849	92	80-120	0	
Selenium	0.05322	0.0050	0.05	0.003249	99.9	79.2-118	0	
Silver	0.03768	0.0050	0.05	0	75.4	83-117	0	S
Sodium	2000	0.20	5	0	40000	82.4-120	0	SE
Vanadium	0.04574	0.0050	0.05	0.0004995	90.5	82.1-119	0	
Zinc	0.1042	0.0050	0.05	0.05816	92.1	83-118	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9760 InstrumentID: ICP4500

MSD	Sample ID: 0407245-05CMSD	Test Code: SW6020		Units: mg/L		Analysis Date: 07/31/04 14:53		
Client ID:		Run ID:	ICP4500_040731A	SeqNo:	517529	Prep Date:	7/27/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	0.04597	0.010	0.05	0.004601	82.7	79-126	0.04578	0.414 15
Arsenic	0.05063	0.0050	0.05	0	101	80-121	0.04991	1.43 15
Barium	0.08024	0.0050	0.05	0.03605	88.4	79.8-119	0.08031	0.0872 15
Beryllium	0.04875	0.0020	0.05	0	97.5	78.9-120	0.0496	1.73 15
Boron	0.5724	0.020	0	0.1056	0	80-120	0.5789	1.13 15
Cadmium	0.04915	0.0020	0.05	0.0002884	97.7	79.1-119	0.04853	1.27 15
Calcium	97.59	0.50	5	93.77	76.4	80-121	98.74	1.17 15 SEO
Chromium	0.0452	0.0050	0.05	0	90.4	79.3-121	0.04436	1.88 15
Cobalt	0.04395	0.0050	0.05	0.0007819	86.3	82-121	0.04276	2.74 15
Copper	0.04117	0.0050	0.05	0.000763	80.8	83-121	0.04051	1.62 15 S
Iron	4.818	0.20	5	0.2484	91.4	80-120	4.786	0.666 15
Lead	0.04425	0.0050	0.05	0	88.5	80-118	0.04366	1.34 15
Magnesium	10.14	0.20	5	5.498	92.8	80-120	10.02	1.19 15
Manganese	0.0695	0.0050	0.05	0.02633	86.3	82-119	0.06996	0.66 15
Molybdenum	0.04537	0.0050	0.05	0	90.7	84.6-115	0.0442	2.61 15
Nickel	0.04574	0.0050	0.05	0.003507	84.5	85-120	0.04491	1.83 15 S
Potassium	13.35	0.20	5	8.849	90	80-120	13.45	0.746 15
Selenium	0.0518	0.0050	0.05	0.003249	97.1	79.2-118	0.05322	2.7 15
Silver	0.03995	0.0050	0.05	0	79.9	83-117	0.03768	5.85 15 S
Sodium	2000	0.20	5	0	40000	82.4-120	2000	0 15 SE
Vanadium	0.04663	0.0050	0.05	0.0004995	92.3	82.1-119	0.04574	1.93 15
Zinc	0.1025	0.0050	0.05	0.05816	88.7	83-118	0.1042	1.64 15

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9760 InstrumentID: ICP4500

DUP	Sample ID: 0407245-05CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 07/31/04 14:43				
Client ID:		Run ID:	ICP4500_040731A	SeqNo:	517527	Prep Date:	7/27/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.004476	0.010	0	0	0	0-0	0.004601	0	25	J
Arsenic	ND	0.0050	0	0	0	0-0	0.0008023	0	25	
Barium	0.03547	0.0050	0	0	0	0-0	0.03605	1.62	25	
Beryllium	ND	0.0020	0	0	0	0-0	0.0002568	0	25	
Boron	0.1021	0.020	0	0	0	0-0	0.1056	3.37	25	
Cadmium	0.0001731	0.0020	0	0	0	0-0	0.0002884	0	25	J
Chromium	ND	0.0050	0	0	0	0-0	0.0004792	0	25	
Cobalt	0.0007157	0.0050	0	0	0	0-0	0.0007819	0	25	J
Copper	0.000729	0.0050	0	0	0	0-0	0.000763	0	25	J
Iron	0.2422	0.20	0	0	0	0-0	0.2484	2.53	25	
Lead	ND	0.0050	0	0	0	0-0	0.00007642	0	25	
Magnesium	5.553	0.20	0	0	0	0-0	5.498	0.995	25	
Manganese	0.02583	0.0050	0	0	0	0-0	0.02633	1.92	25	
Molybdenum	ND	0.0050	0	0	0	0-0	0.001011	0	25	
Nickel	0.00343	0.0050	0	0	0	0-0	0.003507	0	25	J
Potassium	8.747	0.20	0	0	0	0-0	8.849	1.16	25	
Selenium	0.002954	0.0050	0	0	0	0-0	0.003249	0	25	J
Silver	ND	0.0050	0	0	0	0-0	0.00002754	0	25	
Sodium	ND	0.20	0	0	0	0-0	0	0	25	
Vanadium	0.0004141	0.0050	0	0	0	0-0	0.0004995	0	25	J
Zinc	0.05803	0.0050	0	0	0	0-0	0.05816	0.224	25	

DUP	Sample ID: 0407245-05CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 08/02/04 18:26				
Client ID:		Run ID:	ICP4500_040802A	SeqNo:	518162	Prep Date:	7/27/2004	DF:	10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	102.5	5.0	0	0	0	0-0	100.6	1.87	25	

The following samples were analyzed in this batch: 0407269-01C

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9817	InstrumentID: Mercury										
MBLK	Sample ID: GBLKW1-080204	Test Code: SW7470				Units: mg/L		Analysis Date: 08/03/04 14:58			
Client ID:		Run ID: MERCURY_040803B	SeqNo:	518570		Prep Date: 8/2/2004	DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		ND	0.00020								
LCS	Sample ID: GLCSW1-080204	Test Code: SW7470				Units: mg/L		Analysis Date: 08/03/04 15:00			
Client ID:		Run ID: MERCURY_040803B	SeqNo:	518571		Prep Date: 8/2/2004	DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.00462	0.00020	0.005	0	92.4	83-115		0		
LCSD	Sample ID: GLCSDW1-080204	Test Code: SW7470				Units: mg/L		Analysis Date: 08/03/04 15:01			
Client ID:		Run ID: MERCURY_040803B	SeqNo:	518572		Prep Date: 8/2/2004	DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.00522	0.00020	0.005	0	104	83-115	0.00462	12.2	20	
MS	Sample ID: 0407271-01CMS	Test Code: SW7470				Units: mg/L		Analysis Date: 08/03/04 15:08			
Client ID:		Run ID: MERCURY_040803B	SeqNo:	518575		Prep Date: 8/2/2004	DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.00475	0.00020	0.005	0.000008	94.8	83-115		0		
MSD	Sample ID: 0407271-01CMUSD	Test Code: SW7470				Units: mg/L		Analysis Date: 08/03/04 15:12			
Client ID:		Run ID: MERCURY_040803B	SeqNo:	518576		Prep Date: 8/2/2004	DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		0.00468	0.00020	0.005	0.000008	93.4	83-115	0.00475	1.48	20	
DUP	Sample ID: 0407271-01CDUP	Test Code: SW7470				Units: mg/L		Analysis Date: 08/03/04 15:07			
Client ID:		Run ID: MERCURY_040803B	SeqNo:	518574		Prep Date: 8/2/2004	DF: 1				
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury		ND	0.00020	0	0	0	0-0	0.000008	0	20	

The following samples were analyzed in this batch: 0407269-01C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9730 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-040723	Test Code: SW8270		Units: µg/L		Analysis Date: 07/26/04 15:54		
Client ID:	Run ID: SV-3_040726A	SeqNo:	515255	Prep Date: 7/23/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit
1,2,4-Trichlorobenzene	ND	10						
2,4,5-Trichlorophenol	ND	10						
2,4,6-Trichlorophenol	ND	10						
2-Methylnaphthalene	ND	10						
2-Methylphenol	ND	10						
2-Nitroaniline	ND	10						
2-Nitrophenol	ND	10						
3-Nitroaniline	ND	10						
4-Methylphenol	ND	10						
4-Nitroaniline	ND	10						
4-Nitrophenol	ND	10						
Acenaphthene	ND	10						
Acenaphthylene	ND	10						
Aniline	ND	10						
Anthracene	ND	10						
Benz(a)anthracene	ND	10						
Benzidine	ND	10						
Hexachloroethane	ND	10						
Indeno(1,2,3-cd)pyrene	ND	10						
Isophorone	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitrosodiphenylamine	ND	10						
Naphthalene	ND	10						
Nitrobenzene	ND	10						
Pentachlorophenol	ND	10						
Phenanthrene	ND	10						
Phenol	ND	10						
Pyrene	ND	10						
1,4-Dichlorobenzene-d4	40	0						
Acenaphthene-d10	40	0						
Chrysene-d12	40	0						
Naphthalene-d8	40	0						
Perylene-d12	40	0						
Phenanthrene-d10	40	0						
Surr: 2,4,6-Tribromophenol	100	10	100	0	100	39-153	0	
Surr: 2-Fluorobiphenyl	96.01	10	100	0	96	40-147	0	
Surr: 2-Fluorophenol	40.85	10	100	0	40.8	21-110	0	
Surr: 4-Terphenyl-d14	106.5	10	100	0	107	39-141	0	
Surr: Nitrobenzene-d5	91.62	10	100	0	91.6	37-140	0	
Surr: Phenol-d6	23.94	10	100	0	23.9	11-100	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **9730** InstrumentID: **SV-3**

LCS	Sample ID: SLCSW1-040723	Test Code: SW8270		Units: µg/L		Analysis Date: 07/26/04 16:19			
Client ID:		Run ID: SV-3_040726A		SeqNo: 515256		Prep Date: 7/23/2004	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,2,4-Trichlorobenzene	43.51	10	50	0	87	50-115	0	0	
2,4,5-Trichlorophenol	104.3	10	100	0	104	68-128	0	0	
2,4,6-Trichlorophenol	100.8	10	100	0	101	66-125	0	0	
2-Methylnaphthalene	44.75	10	50	0	89.5	47-122	0	0	
2-Methylphenol	74.62	10	100	0	74.6	51-115	0	0	
2-Nitroaniline	53.59	10	50	0	107	64-128	0	0	
2-Nitrophenol	99.6	10	100	0	99.6	60-119	0	0	
3-Nitroaniline	50.85	10	50	0	102	61-118	0	0	
4-Methylphenol	98.44	10	150	0	65.6	44-115	0	0	
4-Nitroaniline	52.46	10	50	0	105	61-123	0	0	
4-Nitrophenol	37.59	10	100	0	37.6	17-100	0	0	
Acenaphthene	50.99	10	50	0	102	68-115	0	0	
Acenaphthylene	50.51	10	50	0	101	67-116	0	0	
Aniline	46.16	10	50	0	92.3	40-130	0	0	
Anthracene	53.46	10	50	0	107	70-129	0	0	
Benz(a)anthracene	56.63	10	50	0	113	55-131	0	0	
Benzidine	40.83	10	50	0	81.7	10-115	0	0	
Hexachloroethane	39.86	10	50	0	79.7	46-115	0	0	
Indeno(1,2,3-cd)pyrene	55.23	10	50	0	110	42-123	0	0	
Isophorone	51.55	10	50	0	103	63-117	0	0	
N-Nitrosodi-n-propylamine	50.36	10	50	0	101	67-115	0	0	
N-Nitrosodimethylamine	23.56	10	50	0	47.1	28-115	0	0	
N-Nitrosodiphenylamine	54.98	10	50	0	110	72-144	0	0	
Naphthalene	45.89	10	50	0	91.8	52-115	0	0	
Nitrobenzene	48.33	10	50	0	96.7	65-115	0	0	
Pentachlorophenol	98.86	10	100	0	98.9	65-123	0	0	
Phenanthrene	52.88	10	50	0	106	69-119	0	0	
Phenol	30.48	10	100	0	30.5	16-115	0	0	
Pyrene	51.66	10	50	0	103	51-130	0	0	
Surr: 2,4,6-Tribromophenol	107.9	10	100	0	108	39-153	0	0	
Surr: 2-Fluorobiphenyl	98.98	10	100	0	99	40-147	0	0	
Surr: 2-Fluorophenol	50.13	10	100	0	50.1	21-110	0	0	
Surr: 4-Terphenyl-d14	107.3	10	100	0	107	39-141	0	0	
Surr: Nitrobenzene-d5	98.37	10	100	0	98.4	37-140	0	0	
Surr: Phenol-d6	26.91	10	100	0	26.9	11-100	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9730 InstrumentID: SV-3

MS	Sample ID: 0407227-09EMS	Test Code: SW8270		Units: µg/L		Analysis Date: 07/26/04 17:08			
Client ID:		Run ID: SV-3_040726A	SeqNo: 515257	Prep Date: 7/23/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,2,4-Trichlorobenzene	53.1	11	57.47	0	92.4	50-115	0		
2,4,5-Trichlorophenol	116.9	11	114.9	0	102	68-128	0		
2,4,6-Trichlorophenol	115	11	114.9	0	100	66-125	0		
2-Methylnaphthalene	52.79	11	57.47	0	91.9	47-122	0		
2-Methylphenol	86.92	11	114.9	0	75.6	51-115	0		
2-Nitroaniline	61.01	11	57.47	0	106	64-128	0		
2-Nitrophenol	112.4	11	114.9	0	97.8	60-119	0		
3-Nitroaniline	50.79	11	57.47	0	88.4	61-118	0		
4-Methylphenol	117.8	11	172.4	0	68.3	44-115	0		
4-Nitroaniline	60.76	11	57.47	0	106	61-123	0		
4-Nitrophenol	53.85	11	114.9	0	46.8	17-100	0		
Acenaphthene	56.83	11	57.47	0	98.9	68-115	0		
Acenaphthylene	56.31	11	57.47	0	98	67-116	0		
Aniline	37.32	11	57.47	0	64.9	40-130	0		
Anthracene	59.96	11	57.47	0	104	70-129	0		
Benz(a)anthracene	65.4	11	57.47	0	114	55-131	0		
Benzidine	6.81	11	57.47	0	11.8	10-115	0		J
Hexachloroethane	49.96	11	57.47	0	86.9	46-115	0		
Indeno(1,2,3-cd)pyrene	61.89	11	57.47	0	108	42-123	0		
Isophorone	58.25	11	57.47	0	101	63-117	0		
N-Nitrosodi-n-propylamine	57.32	11	57.47	0	99.7	67-115	0		
N-Nitrosodimethylamine	29.79	11	57.47	0	51.8	28-115	0		
N-Nitrosodiphenylamine	63.56	11	57.47	0	111	72-144	0		
Naphthalene	54.17	11	57.47	0	94.2	52-115	0		
Nitrobenzene	57.33	11	57.47	0	99.8	65-115	0		
Pentachlorophenol	119.8	11	114.9	0	104	65-123	0		
Phenanthrene	60.99	11	57.47	0	106	69-119	0		
Phenol	39.81	11	114.9	0	34.6	16-115	0		
Pyrene	59.41	11	57.47	0	103	51-130	0		
Surr: 2,4,6-Tribromophenol	123.9	11	114.9	0	108	39-153	0		
Surr: 2-Fluorobiphenyl	108.5	11	114.9	0	94.4	40-147	0		
Surr: 2-Fluorophenol	59.31	11	114.9	0	51.6	21-110	0		
Surr: 4-Terphenyl-d14	112.4	11	114.9	0	97.8	39-141	0		
Surr: Nitrobenzene-d5	108.3	11	114.9	0	94.2	37-140	0		
Surr: Phenol-d6	36.81	11	114.9	0	32	11-100	0		

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9730 InstrumentID: SV-3

MSD	Sample ID: 0407227-09EMSD	Test Code: SW8270		Units: µg/L		Analysis Date: 07/26/04 17:33				
Client ID:		Run ID:	SV-3_040726A	SeqNo:	515258	Prep Date:	7/23/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	56.49	12	60.98	0	92.6	50-115	53.1	6.19	30	
2,4,5-Trichlorophenol	124.4	12	122	0	102	68-128	116.9	6.18	30	
2,4,6-Trichlorophenol	121.1	12	122	0	99.3	66-125	115	5.18	30	
2-Methylnaphthalene	56.79	12	60.98	0	93.1	47-122	52.79	7.3	30	
2-Methylphenol	94.58	12	122	0	77.6	51-115	86.92	8.44	30	
2-Nitroaniline	64.34	12	60.98	0	106	64-128	61.01	5.31	30	
2-Nitrophenol	119.5	12	122	0	98	60-119	112.4	6.06	30	
3-Nitroaniline	54.96	12	60.98	0	90.1	61-118	50.79	7.89	30	
4-Methylphenol	131.2	12	182.9	0	71.7	44-115	117.8	10.8	30	
4-Nitroaniline	63.8	12	60.98	0	105	61-123	60.76	4.87	30	
4-Nitrophenol	56.58	12	122	0	46.4	17-100	53.85	4.96	30	
Acenaphthene	60.92	12	60.98	0	99.9	68-115	56.83	6.94	30	
Acenaphthylene	60.51	12	60.98	0	99.2	67-116	56.31	7.19	30	
Aniline	38.82	12	60.98	0	63.7	40-130	37.32	3.93	30	
Anthracene	63.75	12	60.98	0	105	70-129	59.96	6.13	30	
Benz(a)anthracene	66.59	12	60.98	0	109	55-131	65.4	1.81	30	
Benzidine	7.134	12	60.98	0	11.7	10-115	6.81	0	30	J
Hexachloroethane	53.41	12	60.98	0	87.6	46-115	49.96	6.69	30	
Indeno(1,2,3-cd)pyrene	68.03	12	60.98	0	112	42-123	61.89	9.44	30	
Isophorone	63.11	12	60.98	0	104	63-117	58.25	8.01	30	
N-Nitrosodi-n-propylamine	59.47	12	60.98	0	97.5	67-115	57.32	3.68	30	
N-Nitrosodimethylamine	34.06	12	60.98	0	55.9	28-115	29.79	13.4	30	
N-Nitrosodiphenylamine	65.74	12	60.98	0	108	72-144	63.56	3.38	30	
Naphthalene	57.78	12	60.98	0	94.8	52-115	54.17	6.46	30	
Nitrobenzene	59.16	12	60.98	0	97	65-115	57.33	3.14	30	
Pentachlorophenol	132.7	12	122	0	109	65-123	119.8	10.3	30	
Phenanthrene	63.58	12	60.98	0	104	69-119	60.99	4.17	30	
Phenol	45.52	12	122	0	37.3	16-115	39.81	13.4	30	
Pyrene	61.14	12	60.98	0	100	51-130	59.41	2.88	30	
Surr: 2,4,6-Tribromophenol	131.6	12	122	0	108	39-153	123.9	6.07	30	
Surr: 2-Fluorobiphenyl	118.1	12	122	0	96.8	40-147	108.5	8.49	30	
Surr: 2-Fluorophenol	69.6	12	122	0	57.1	21-110	59.31	16	30	
Surr: 4-Terphenyl-d14	121	12	122	0	99.3	39-141	112.4	7.4	30	
Surr: Nitrobenzene-d5	121.2	12	122	0	99.4	37-140	108.3	11.2	30	
Surr: Phenol-d6	42.4	12	122	0	34.8	11-100	36.81	14.1	30	

The following samples were analyzed in this batch:

0407269-01E

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R22126** InstrumentID: **VOA1**

MBLK	Sample ID: VBLKW-0730			Test Code: SW8260	Units: µg/L		Analysis Date: 07/31/04 0:17			
Client ID:		Run ID:	VOA1_040730B	SeqNo:	517741	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	47.62	5.0	50	0	95.2	71-126		0		
Surr: 4-Bromofluorobenzene	47	5.0	50	0	94	74-125		0		
Surr: Dibromofluoromethane	48.71	5.0	50	0	97.4	73-126		0		
Surr: Toluene-d8	47.31	5.0	50	0	94.6	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R22126** InstrumentID: **VOA1**

LCS	Sample ID: VLCSW-0730	Test Code: SW8260			Units: µg/L		Analysis Date: 07/30/04 23:49			
Client ID:	Run ID: VOA1_040730B	SeqNo: 517740		Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	52.76	5.0	50	0	106	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	45.55	5.0	50	0	91.1	72.4-121	0	0		
1,1,2-Trichloroethane	53.11	5.0	50	0	106	80-120	0	0		
1,1-Dichloroethane	47.79	5.0	50	0	95.6	76.9-120	0	0		
1,1-Dichloroethene	48.79	5.0	50	0	97.6	72.6-123	0	0		
1,2-Dichloroethane	48.96	5.0	50	0	97.9	80-120	0	0		
2-Butanone	99.22	10	100	0	99.2	69-131	0	0		
2-Chloroethyl vinyl ether	94.56	10	100	0	94.6	60-135	0	0		
2-Hexanone	100.3	10	100	0	100	55.6-126	0	0		
4-Methyl-2-pentanone	96.5	10	100	0	96.5	67.4-121	0	0		
Acetone	94.78	10	100	0	94.8	64.4-140	0	0		
Benzene	50.35	5.0	50	0	101	80-120	0	0		
Bromodichloromethane	48.68	5.0	50	0	97.4	80-120	0	0		
Bromoform	53.73	5.0	50	0	107	77.9-121	0	0		
Bromomethane	44.15	5.0	50	0	88.3	63.3-137	0	0		
Carbon disulfide	97.37	10	100	0	97.4	74.1-123	0	0		
Carbon tetrachloride	52.98	5.0	50	0	106	74.7-120	0	0		
Chlorobenzene	51.88	5.0	50	0	104	80-120	0	0		
Chloroethane	48.05	5.0	50	0	96.1	74.7-126	0	0		
Chloroform	50.04	5.0	50	0	100	80-120	0	0		
Chloromethane	42.66	5.0	50	0	85.3	64.5-132	0	0		
cis-1,3-Dichloropropene	50.93	5.0	50	0	102	80-120	0	0		
Dibromochloromethane	53.36	5.0	50	0	107	80-120	0	0		
Ethylbenzene	54.84	5.0	50	0	110	80-120	0	0		
m,p-Xylene	109.6	10	100	0	110	80-120	0	0		
Methylene chloride	45.21	10	50	0	90.4	76.2-120	0	0		
Styrene	50.28	5.0	50	0	101	80-120	0	0		
Tetrachloroethylene	52.73	5.0	50	0	105	68.5-130	0	0		
Toluene	55.03	5.0	50	0	110	80-120	0	0		
trans-1,3-Dichloropropene	52.05	5.0	50	0	104	80-120	0	0		
Trichloroethene	54.75	5.0	50	0	110	78.9-120	0	0		
Vinyl acetate	87.16	10	100	0	87.2	62.4-133	0	0		
Vinyl chloride	46.98	2.0	50	0	94	72.7-128	0	0		
Xylenes, Total	164.5	15	150	0	110	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	45.22	5.0	50	0	90.4	71-126	0	0		
Surr: 4-Bromofluorobenzene	52.68	5.0	50	0	105	74-125	0	0		
Surr: Dibromofluoromethane	44.91	5.0	50	0	89.8	73-126	0	0		
Surr: Toluene-d8	49.61	5.0	50	0	99.2	75-125	0	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22126 InstrumentID: VOA1

MS	Sample ID: 0407282-06AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 07/31/04 1:11			
Client ID:	Run ID: VOA1_040730B	SeqNo:	517742	Prep Date:	DF: 5				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	248.4	25	250	0	99.4	75.2-120	0		
1,1,2,2-Tetrachloroethane	225.9	25	250	0	90.4	72.4-121	0		
1,1,2-Trichloroethane	248.6	25	250	0	99.4	80-120	0		
1,1-Dichloroethane	256.7	25	250	0	103	76.9-120	0		
1,1-Dichloroethene	234.7	25	250	0	93.9	72.6-123	0		
1,2-Dichloroethane	257.5	25	250	0	103	80-120	0		
2-Butanone	500.4	50	500	0	100	69-131	0		
2-Chloroethyl vinyl ether	ND	50	500	0	0	60-135	0		S
2-Hexanone	435.4	50	500	0	87.1	55.6-126	0		
4-Methyl-2-pentanone	439.9	50	500	0	88	67.4-121	0		
Acetone	384.6	50	500	0	76.9	64.4-140	0		
Benzene	248.3	25	250	0	99.3	80-120	0		
Bromodichloromethane	247.8	25	250	0	99.1	80-120	0		
Bromoform	242.7	25	250	0	97.1	77.9-121	0		
Bromomethane	230.4	25	250	0	92.2	63.3-137	0		
Carbon disulfide	453.6	50	500	0	90.7	74.1-123	0		
Carbon tetrachloride	232.4	25	250	0	93	74.7-120	0		
Chlorobenzene	251.1	25	250	0	100	80-120	0		
Chloroethane	229	25	250	0	91.6	74.7-126	0		
Chloroform	254.3	25	250	0	102	80-120	0		
Chloromethane	203.3	25	250	0	81.3	64.5-132	0		
cis-1,3-Dichloropropene	234.5	25	250	0	93.8	80-120	0		
Dibromochloromethane	254.4	25	250	0	102	80-120	0		
Ethylbenzene	255.9	25	250	0	102	80-120	0		
m,p-Xylene	508.3	50	500	0	102	80-120	0		
Methylene chloride	232.7	50	250	0	93.1	76.2-120	0		
Styrene	228.6	25	250	0	91.4	80-120	0		
Tetrachloroethene	548.1	25	250	306.2	96.8	68.5-130	0		
Toluene	237.8	25	250	0	95.1	80-120	0		
trans-1,3-Dichloropropene	236	25	250	0	94.4	80-120	0		
Trichloroethene	246.5	25	250	0	98.6	78.9-120	0		
Vinyl acetate	621.8	50	500	0	124	62.4-133	0		
Vinyl chloride	204.6	10	250	0	81.8	72.7-128	0		
Xylenes, Total	758.2	75	750	0	101	80-120	0		
Surr: 1,2-Dichloroethane-d4	251.2	25	250	0	100	71-126	0		
Surr: 4-Bromofluorobenzene	243.1	25	250	0	97.2	74-125	0		
Surr: Dibromofluoromethane	243.4	25	250	0	97.4	73-126	0		
Surr: Toluene-d8	242.6	25	250	0	97	75-125	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22126 InstrumentID: VOA1

MSD	Sample ID: 0407282-06AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/31/04 1:39			
Client ID:		Run ID:	VOA1_040730B	SeqNo:	517743	Prep Date:	DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	261.3	25	250	0	105	75.2-120	248.4	5.04	20
1,1,2,2-Tetrachloroethane	231	25	250	0	92.4	72.4-121	225.9	2.22	20
1,1,2-Trichloroethane	254.2	25	250	0	102	80-120	248.6	2.23	20
1,1-Dichloroethane	244.4	25	250	0	97.8	76.9-120	256.7	4.92	20
1,1-Dichloroethene	233.5	25	250	0	93.4	72.6-123	234.7	0.536	20
1,2-Dichloroethane	253.8	25	250	0	102	80-120	257.5	1.42	20
2-Butanone	456.9	50	500	0	91.4	69-131	500.4	9.1	20
2-Chloroethyl vinyl ether	ND	50	500	0	0	60-135	0	0	20 S
2-Hexanone	447.9	50	500	0	89.6	55.6-126	435.4	2.83	20
4-Methyl-2-pentanone	456.9	50	500	0	91.4	67.4-121	439.9	3.78	20
Acetone	395.6	50	500	0	79.1	64.4-140	384.6	2.81	20
Benzene	242.7	25	250	0	97.1	80-120	248.3	2.28	20
Bromodichloromethane	249.8	25	250	0	99.9	80-120	247.8	0.81	20
Bromoform	253.7	25	250	0	101	77.9-121	242.7	4.44	20
Bromomethane	231	25	250	0	92.4	63.3-137	230.4	0.27	20
Carbon disulfide	460.2	50	500	0	92	74.1-123	453.6	1.43	20
Carbon tetrachloride	240.5	25	250	0	96.2	74.7-120	232.4	3.41	20
Chlorobenzene	250.4	25	250	0	100	80-120	251.1	0.286	20
Chloroethane	225.4	25	250	0	90.2	74.7-126	229	1.55	20
Chloroform	258.5	25	250	0	103	80-120	254.3	1.66	20
Chloromethane	207.7	25	250	0	83.1	64.5-132	203.3	2.16	20
cis-1,3-Dichloropropene	243.9	25	250	0	97.6	80-120	234.5	3.93	20
Dibromochloromethane	261.8	25	250	0	105	80-120	254.4	2.89	20
Ethylbenzene	267.2	25	250	0	107	80-120	255.9	4.33	20
m,p-Xylene	496.8	50	500	0	99.4	80-120	508.3	2.29	20
Methylene chloride	227.7	50	250	0	91.1	76.2-120	232.7	2.17	20
Styrene	232	25	250	0	92.8	80-120	228.6	1.48	20
Tetrachloroethene	553.7	25	250	306.2	99	68.5-130	548.1	1.01	20
Toluene	252.5	25	250	0	101	80-120	237.8	5.98	20
trans-1,3-Dichloropropene	250.5	25	250	0	100	80-120	236	5.97	20
Trichloroethene	237.8	25	250	0	95.1	78.9-120	246.5	3.62	20
Vinyl acetate	630	50	500	0	126	62.4-133	621.8	1.3	20
Vinyl chloride	210.4	10	250	0	84.2	72.7-128	204.6	2.79	20
Xylenes, Total	747.6	75	750	0	99.7	80-120	758.2	1.41	20
Surr: 1,2-Dichloroethane-d4	237.8	25	250	0	95.1	71-126	251.2	5.51	20
Surr: 4-Bromofluorobenzene	250.1	25	250	0	100	74-125	243.1	2.83	20
Surr: Dibromofluoromethane	243.3	25	250	0	97.3	73-126	243.4	0.0596	20
Surr: Toluene-d8	256.2	25	250	0	102	75-125	242.6	5.45	20

The following samples were analyzed in this batch:

0407269-01A

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22159 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-0802	Test Code: SW8260		Units: µg/L		Analysis Date: 08/03/04 1:11				
Client ID:		Run ID:	VOA1_040802C	SeqNo:	518363	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	48.91	5.0	50	0	97.8	71-126		0		
Surr: 4-Bromofluorobenzene	47.19	5.0	50	0	94.4	74-125		0		
Surr: Dibromofluoromethane	50.58	5.0	50	0	101	73-126		0		
Surr: Toluene-d8	49.92	5.0	50	0	99.8	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22159 InstrumentID: VOA1

LCS	Sample ID: VLCSW-0802	Test Code: SW8260		Units: µg/L		Analysis Date: 08/03/04 0:16		
Client ID:		Run ID:	VOA1_040802C	SeqNo:	518362	Prep Date:	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	54.69	5.0	50	0	109	75.2-120	0	
1,1,2,2-Tetrachloroethane	43.95	5.0	50	0	87.9	72.4-121	0	
1,1,2-Trichloroethane	51.98	5.0	50	0	104	80-120	0	
1,1-Dichloroethane	54.01	5.0	50	0	108	76.9-120	0	
1,1-Dichloroethene	51.71	5.0	50	0	103	72.6-123	0	
1,2-Dichloroethane	50.61	5.0	50	0	101	80-120	0	
2-Butanone	112	10	100	0	112	69-131	0	
2-Chloroethyl vinyl ether	94.49	10	100	0	94.5	60-135	0	
2-Hexanone	94.96	10	100	0	95	55.6-126	0	
4-Methyl-2-pentanone	93.69	10	100	0	93.7	67.4-121	0	
Acetone	96.03	10	100	0	96	64.4-140	0	
Benzene	52.83	5.0	50	0	106	80-120	0	
Bromodichloromethane	48.68	5.0	50	0	97.4	80-120	0	
Bromoform	47.37	5.0	50	0	94.7	77.9-121	0	
Bromomethane	43.54	5.0	50	0	87.1	63.3-137	0	
Carbon disulfide	101.5	10	100	0	102	74.1-123	0	
Carbon tetrachloride	51.05	5.0	50	0	102	74.7-120	0	
Chlorobenzene	50.29	5.0	50	0	101	80-120	0	
Chloroethane	46.4	5.0	50	0	92.8	74.7-126	0	
Chloroform	53.57	5.0	50	0	107	80-120	0	
Chloromethane	41.66	5.0	50	0	83.3	64.5-132	0	
cis-1,3-Dichloropropene	52.48	5.0	50	0	105	80-120	0	
Dibromochloromethane	50.24	5.0	50	0	100	80-120	0	
Ethylbenzene	54.17	5.0	50	0	108	80-120	0	
m,p-Xylene	106.8	10	100	0	107	80-120	0	
Methylene chloride	46.46	10	50	0	92.9	76.2-120	0	
Styrene	50.79	5.0	50	0	102	80-120	0	
Tetrachloroethene	52.38	5.0	50	0	105	68.5-130	0	
Toluene	51.88	5.0	50	0	104	80-120	0	
trans-1,3-Dichloropropene	51.41	5.0	50	0	103	80-120	0	
Trichloroethene	58.15	5.0	50	0	116	78.9-120	0	
Vinyl acetate	83.47	10	100	0	83.5	62.4-133	0	
Vinyl chloride	45.5	2.0	50	0	91	72.7-128	0	
Xylenes, Total	159.8	15	150	0	107	80-120	0	
Surr: 1,2-Dichloroethane-d4	46.98	5.0	50	0	94	71-126	0	
Surr: 4-Bromofluorobenzene	48.96	5.0	50	0	97.9	74-125	0	
Surr: Dibromofluoromethane	47.65	5.0	50	0	95.3	73-126	0	
Surr: Toluene-d8	47.92	5.0	50	0	95.8	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22159 InstrumentID: VOA1

MS	Sample ID: 0407361-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 08/03/04 2:05		
Client ID:		Run ID:	VOA1_040802C	SeqNo:	518364	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	50.27	5.0	50	0	101	75.2-120	0	
1,1,2,2-Tetrachloroethane	49.12	5.0	50	0	98.2	72.4-121	0	
1,1,2-Trichloroethane	50.33	5.0	50	0	101	80-120	0	
1,1-Dichloroethane	51.45	5.0	50	0	103	76.9-120	0	
1,1-Dichloroethene	48.7	5.0	50	0	97.4	72.6-123	0	
1,2-Dichloroethane	51.75	5.0	50	0	104	80-120	0	
2-Butanone	106.5	10	100	0	106	69-131	0	
2-Chloroethyl vinyl ether	ND	10	100	0	0	60-135	0	S
2-Hexanone	89.73	10	100	0	89.7	55.6-126	0	
4-Methyl-2-pentanone	93.47	10	100	0	93.5	67.4-121	0	
Acetone	78.65	10	100	0	78.7	64.4-140	0	
Benzene	50.46	5.0	50	0	101	80-120	0	
Bromodichloromethane	50.21	5.0	50	0	100	80-120	0	
Bromoform	47.99	5.0	50	0	96	77.9-121	0	
Bromomethane	40.1	5.0	50	0	80.2	63.3-137	0	
Carbon disulfide	92.92	10	100	0	92.9	74.1-123	0	
Carbon tetrachloride	49.31	5.0	50	0	98.6	74.7-120	0	
Chlorobenzene	48.86	5.0	50	0	97.7	80-120	0	
Chloroethane	44.31	5.0	50	0	88.6	74.7-126	0	
Chloroform	52.4	5.0	50	0	105	80-120	0	
Chloromethane	38.52	5.0	50	0	77	64.5-132	0	
cis-1,3-Dichloropropene	49.61	5.0	50	0	99.2	80-120	0	
Dibromochloromethane	50.02	5.0	50	0	100	80-120	0	
Ethylbenzene	51.42	5.0	50	0	103	80-120	0	
m,p-Xylene	103.3	10	100	0	103	80-120	0	
Methylene chloride	45.95	10	50	0	91.9	76.2-120	0	
Styrene	47.51	5.0	50	0	95	80-120	0	
Tetrachloroethene	48.49	5.0	50	0	97	68.5-130	0	
Toluene	49.21	5.0	50	0	98.4	80-120	0	
trans-1,3-Dichloropropene	49.24	5.0	50	0	98.5	80-120	0	
Trichloroethene	50.94	5.0	50	0	102	78.9-120	0	
Vinyl acetate	115.5	10	100	0	115	62.4-133	0	
Vinyl chloride	42.3	2.0	50	0	84.6	72.7-128	0	
Xylenes, Total	153.6	15	150	0	102	80-120	0	
Surr: 1,2-Dichloroethane-d4	45.81	5.0	50	0	91.6	71-126	0	
Surr: 4-Bromofluorobenzene	46.31	5.0	50	0	92.6	74-125	0	
Surr: Dibromofluoromethane	46.29	5.0	50	0	92.6	73-126	0	
Surr: Toluene-d8	45.21	5.0	50	0	90.4	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22159 InstrumentID: VOA1

MSD	Sample ID: 0407361-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 08/03/04 2:32			
Client ID:	Run ID: VOA1_040802C	SeqNo:	518365	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	49.87	5.0	50	0	99.7	75.2-120	50.27	0.799	20
1,1,2,2-Tetrachloroethane	48.35	5.0	50	0	96.7	72.4-121	49.12	1.58	20
1,1,2-Trichloroethane	51.42	5.0	50	0	103	80-120	50.33	2.15	20
1,1-Dichloroethane	50.13	5.0	50	0	100	76.9-120	51.45	2.58	20
1,1-Dichloroethene	47.79	5.0	50	0	95.6	72.6-123	48.7	1.89	20
1,2-Dichloroethane	50.61	5.0	50	0	101	80-120	51.75	2.23	20
2-Butanone	95.73	10	100	0	95.7	69-131	106.5	10.6	20
2-Chloroethyl vinyl ether	ND	10	100	0	0	60-135	0	0	20 S
2-Hexanone	93.03	10	100	0	93	55.6-126	89.73	3.61	20
4-Methyl-2-pentanone	93.51	10	100	0	93.5	67.4-121	93.47	0.0421	20
Acetone	76.98	10	100	0	77	64.4-140	78.65	2.14	20
Benzene	51.81	5.0	50	0	104	80-120	50.46	2.63	20
Bromodichloromethane	49.26	5.0	50	0	98.5	80-120	50.21	1.9	20
Bromoform	49.63	5.0	50	0	99.3	77.9-121	47.99	3.35	20
Bromomethane	41.11	5.0	50	0	82.2	63.3-137	40.1	2.48	20
Carbon disulfide	92.34	10	100	0	92.3	74.1-123	92.92	0.625	20
Carbon tetrachloride	48.91	5.0	50	0	97.8	74.7-120	49.31	0.819	20
Chlorobenzene	50.06	5.0	50	0	100	80-120	48.86	2.42	20
Chloroethane	45.16	5.0	50	0	90.3	74.7-126	44.31	1.92	20
Chloroform	50.93	5.0	50	0	102	80-120	52.4	2.85	20
Chloromethane	41.56	5.0	50	0	83.1	64.5-132	38.52	7.61	20
cis-1,3-Dichloropropene	49.34	5.0	50	0	98.7	80-120	49.61	0.541	20
Dibromochloromethane	49.34	5.0	50	0	98.7	80-120	50.02	1.36	20
Ethylbenzene	52.86	5.0	50	0	106	80-120	51.42	2.77	20
m,p-Xylene	107.3	10	100	0	107	80-120	103.3	3.79	20
Methylene chloride	45.8	10	50	0	91.6	76.2-120	45.95	0.345	20
Styrene	47.73	5.0	50	0	95.5	80-120	47.51	0.453	20
Tetrachloroethene	49.63	5.0	50	0	99.3	68.5-130	48.49	2.32	20
Toluene	51.46	5.0	50	0	103	80-120	49.21	4.47	20
trans-1,3-Dichloropropene	51.25	5.0	50	0	102	80-120	49.24	4	20
Trichloroethene	50.84	5.0	50	0	102	78.9-120	50.94	0.198	20
Vinyl acetate	112.7	10	100	0	113	62.4-133	115.5	2.38	20
Vinyl chloride	42.81	2.0	50	0	85.6	72.7-128	42.3	1.19	20
Xylenes, Total	158.9	15	150	0	106	80-120	153.6	3.38	20
Surr: 1,2-Dichloroethane-d4	44.7	5.0	50	0	89.4	71-126	45.81	2.46	20
Surr: 4-Bromofluorobenzene	49	5.0	50	0	98	74-125	46.31	5.65	20
Surr: Dibromofluoromethane	45.76	5.0	50	0	91.5	73-126	46.29	1.13	20
Surr: Toluene-d8	49.29	5.0	50	0	98.6	75-125	45.21	8.63	20

The following samples were analyzed in this batch:

0407269-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21983		InstrumentID: UV-2101PC									
MBLK	Sample ID: WBLKW1-072504				Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00		
Client ID:	Run ID: UV-2101PC_040725A				SeqNo: 513927	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual		
Cyanide	ND	0.020									
LCS	Sample ID: WLCSW1-072504				Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00		
Client ID:	Run ID: UV-2101PC_040725A				SeqNo: 513928	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual		
Cyanide	0.2044	0.020	0.2	0	102	80-120		0			
MS	Sample ID: 0407271-02DMS				Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00		
Client ID:	Run ID: UV-2101PC_040725A				SeqNo: 513940	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual		
Cyanide	0.2105	0.020	0.2	0.0032	104	75-125		0			
MSD	Sample ID: 0407271-02DMSD				Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00		
Client ID:	Run ID: UV-2101PC_040725A				SeqNo: 513941	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual		
Cyanide	0.2092	0.020	0.2	0.0032	103	75-125	0.2105	0.619	25		
DUP	Sample ID: 0407271-02DDUP				Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00		
Client ID:	Run ID: UV-2101PC_040725A				SeqNo: 513939	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual		
Cyanide	0.003	0.020	0	0	0	0-0	0.0032	0	20 J		

The following samples were analyzed in this batch:

0407269-01D

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21985 InstrumentID: IC201

MBLK Sample ID: WBLKW1-072304 Test Code: E300 Units: mg/L Analysis Date: 07/23/04 13:00

Client ID: Run ID: IC201_040723A SeqNo: 514016 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	5.04	0.10	5	0	101	80-120	0			

LCS Sample ID: WLCSW1-072304 Test Code: E300 Units: mg/L Analysis Date: 07/23/04 13:29

Client ID: Run ID: IC201_040723A SeqNo: 514017 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.17	0.50	10	0	91.7	80-120	0			
Fluoride	1.94	0.10	2	0	97	80-120	0			
Sulfate	9.7	1.0	10	0	97	80-120	0			
Nitrate/Nitrite (as N)	3.88	0.10	0	0	0	80-120	0			
Surr: Dichloroacetic acid (surr)	5.47	0.10	5	0	109	80-120	0			

LCSD Sample ID: WLCSDW1-07230 Test Code: E300 Units: mg/L Analysis Date: 07/23/04 13:57

Client ID: Run ID: IC201_040723A SeqNo: 514018 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.16	0.50	10	0	91.6	80-120	9.17	0.109	20	
Fluoride	1.94	0.10	2	0	97	80-120	1.94	0	20	
Sulfate	9.71	1.0	10	0	97.1	80-120	9.7	0.103	20	
Nitrate/Nitrite (as N)	3.86	0.10	0	0	0	80-120	3.88	0.517	20	
Surr: Dichloroacetic acid (surr)	5.41	0.10	5	0	108	80-120	5.47	1.1	20	

MS Sample ID: 0407269-01BMS Test Code: E300 Units: mg/L Analysis Date: 07/23/04 15:51

Client ID: TEL-4 Run ID: IC201_040723A SeqNo: 514022 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	507.6	5.0	100	413.1	94.5	75-125	0			EO
Fluoride	19.5	1.0	20	2.4	85.5	75-125	0			
Sulfate	612.9	10	100	493.3	120	75-125	0			EO
Nitrate/Nitrite (as N)	38.4	1.0	40	0	96	75-125	0			
Surr: Dichloroacetic acid (surr)	52.8	1.0	50	0	106	80-120	0			

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21985 InstrumentID: IC201

MSD Sample ID: 0407269-01BMSD Test Code: E300 Units: mg/L Analysis Date: 07/23/04 16:20

Client ID: TEL-4 Run ID: IC201_040723A SeqNo: 514023 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	497.7	5.0	100	413.1	84.6	75-125	507.6	1.97	20	O
Fluoride	19.9	1.0	20	2.4	87.5	75-125	19.5	2.03	20	
Sulfate	599.5	10	100	493.3	106	75-125	612.9	2.21	20	EO
Nitrate/Nitrite (as N)	37.5	1.0	40	0	93.8	75-125	38.4	2.37	20	
Surr: Dichloroacetic acid (surr)	52.9	1.0	50	0	106	80-120	52.8	0.189	20	

DUP Sample ID: 0407269-01BDUP Test Code: E300 Units: mg/L Analysis Date: 07/23/04 15:23

Client ID: TEL-4 Run ID: IC201_040723A SeqNo: 514021 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	411.4	5.0	0	0	0	0-0	413.1	0.412	20	
Fluoride	2	1.0	0	0	0	0-0	2.4	18.2	20	
Sulfate	494.3	10	0	0	0	0-0	493.3	0.203	20	
Nitrate/Nitrite (as N)	ND	1.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	52.9	1.0	50	0	106	80-120	52	1.72	20	

DUP Sample ID: 0407271-02BDUP Test Code: E300 Units: mg/L Analysis Date: 07/23/04 20:36

Client ID: Run ID: IC201_040723A SeqNo: 514031 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	229	50	0	0	0	0-0	230	0.436	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	954	100	0	0	0	0-0	954	0	20	
Nitrate/Nitrite (as N)	18	10	0	0	0	0-0	18	0	20	
Surr: Dichloroacetic acid (surr)	523	10	500	0	105	80-120	524	0.191	20	

The following samples were analyzed in this batch: 0407269-01B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407269
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22094 InstrumentID: WetChem

MBLK		Sample ID: WBLKW1-072904		Test Code: E310.1		Units: mg/L		Analysis Date: 07/29/04 0:00		
Client ID:		Run ID: WETCHEM_040729D		SeqNo:	516921	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								
LCS		Sample ID: WLCSW1-072904		Test Code: E310.1		Units: mg/L		Analysis Date: 07/29/04 0:00		
Client ID:		Run ID: WETCHEM_040729D		SeqNo:	516922	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	0.01	0	0-0		0		
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0		0		
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0		0		
Alkalinity, Total (As CaCO3)	1000	5.0	1000		0	100	80-120	0		
DUP	Sample ID: 0407271-01BDUP		Test Code: E310.1		Units: mg/L		Analysis Date: 07/29/04 0:00			
Client ID:		Run ID: WETCHEM_040729D		SeqNo:	516933	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	200.1	5.0	0	0	0	0-0	200.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	200.1	5.0	0	0	0	0-0	200.1	0	20	

The following samples were analyzed in this batch: 0407269-01B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.
10450 Stanchill Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page / of /

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information			Project Information			e-Lab Project Manager			e-Lab Work Order #:			Parameter/Method Request for Analysis					
Purchase Order	Project Name	1C1 / TEL	A	1C1 / TEL		B			C			D					
Work Order	Project Number		E			F			G			H					
Company Name	Bill To Company		I			J			K			L					
Send Report To	Invoice Attn.	Some	M			N			O			P					
Address	Address		Q			R			S			T					
City/State/Zip	City/State/Zip		U			V			W			X					
Phone	Phone		Y			Z			AA			BB					
Fax	Fax		CC			DD			EE			FF					
e-Mail Address			GG			HH			II			JJ					
No.	Sample Description	Date	Time	Matrix	Pres Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	TEL - 4	7/22/01	0930	L													
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign			Shipment Method:			Required Turnaround Time (Check Box)			Results Due Date:								
<i>Jeff Byrd</i>			FedEx			<input type="checkbox"/> 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> Other			<input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 1 Wk Days <input type="checkbox"/> 24 Hour								
Released by:	Date:	Time:	Received by:	Received by:	Date:	Time:	e-Lab ID:	Cooler ID:	Cooler Temp:	QC Package:	(Check Box Below)						
<i>Jeff Byrd</i>	7/22	1615	<i>John</i>	<i>John</i>	7/23/01	0830				<input type="checkbox"/> Standard QC	<input type="checkbox"/> Raw Data						
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Checked by:	Date:	Time:				<input type="checkbox"/> TRRP LRC	<input type="checkbox"/> TRRP Level IV						
										<input type="checkbox"/> SW846 Methods/CLP like	<input type="checkbox"/> Other:						
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ SO ₃	6-NaHSO ₄	7-Other	8- ^o C		Note: Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.							

e-Lab Analytical, Inc.

Sample Receipt Checklist

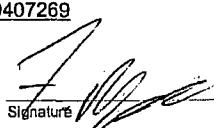
Client Name NAVAJO REFINING

Date/Time Received: 7/23/2004 8:30:00 AM

Work Order Number 0407269

Received by: RSZ

Checklist completed by



Signature

7/23/04

Date

Reviewed by



Initials

7/23/04

Date

Matrix: W

Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.7c</u>	<u>003</u>	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

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e-Lab Analytical, Inc.

10450 Standifff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

August 02, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0407217**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 4 samples on 7/20/2004 8:45:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 40.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0407217

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0407217-01	NCL-33	Water		7/19/2004 09:00	7/20/2004 08:45	<input type="checkbox"/>
0407217-02	NCL-34	Water		7/19/2004 09:30	7/20/2004 08:45	<input type="checkbox"/>
0407217-03	MW-60	Water		7/19/2004 11:00	7/20/2004 08:45	<input type="checkbox"/>
0407217-04	MW-59	Water		7/19/2004 13:45	7/20/2004 08:45	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0407217

Case Narrative

Batch 9719 Metals MS/MSD was an unrelated sample.

Batch R22101 Volatiles MS/MSD was an unrelated sample.

Batch R21861 Anions (sample NCL-33) MS/MSD recoveries were outside of control limits for Chloride (59.8% and 62.1% were E and O flagged) and Sulfate (49.2% and 46.3% were E and O flagged).

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-01

Client Sample ID: NCL-33
Collection Date: 7/19/2004 9:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	7/26/2004 4:59:03 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0121	0.0100		mg/L	1	7/27/2004 11:03:00 PM
Arsenic	ND	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Barium	0.0513	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Beryllium	ND	0.00200		mg/L	1	7/27/2004 11:03:00 PM
Boron	0.491	0.0200		mg/L	1	7/27/2004 11:03:00 PM
Cadmium	ND	0.00100		mg/L	1	7/27/2004 11:03:00 PM
Calcium	324	25.0		mg/L	50	7/28/2004 3:09:00 PM
Chromium	ND	0.00200		mg/L	1	7/27/2004 11:03:00 PM
Cobalt	ND	0.00200		mg/L	1	7/27/2004 11:03:00 PM
Copper	ND	0.00200		mg/L	1	7/27/2004 11:03:00 PM
Iron	1.53	0.200		mg/L	1	7/27/2004 11:03:00 PM
Lead	ND	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Magnesium	120	10.0		mg/L	50	7/28/2004 3:09:00 PM
Manganese	0.0782	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Molybdenum	ND	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Nickel	ND	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Potassium	3.46	0.200		mg/L	1	7/27/2004 11:03:00 PM
Selenium	ND	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Silver	ND	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Sodium	104	10.0		mg/L	50	7/28/2004 3:09:00 PM
Vanadium	ND	0.00500		mg/L	1	7/27/2004 11:03:00 PM
Zinc	ND	0.00500		mg/L	1	7/27/2004 11:03:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/27/2004 7:46:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/27/2004 7:46:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
2-Methylphenol	ND	10		µg/L	1	7/27/2004 7:46:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/27/2004 7:46:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/27/2004 7:46:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/27/2004 7:46:00 PM
4-Methylphenol	ND	10		µg/L	1	7/27/2004 7:46:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/27/2004 7:46:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Acenaphthene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Acenaphthylene	ND	10		µg/L	1	7/27/2004 7:46:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-01

Client Sample ID: NCL-33
Collection Date: 7/19/2004 9:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Anthracene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Benzidine	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Hexachloroethane	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Isophorone	ND	10		µg/L	1	7/27/2004 7:46:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/27/2004 7:46:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/27/2004 7:46:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Naphthalene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Nitrobenzene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Phenanthrene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Phenol	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Pyrene	ND	10		µg/L	1	7/27/2004 7:46:00 PM
Surr: 2,4,6-Tribromophenol	119	39-153		%REC	1	7/27/2004 7:46:00 PM
Surr: 2-Fluorobiphenyl	101	40-147		%REC	1	7/27/2004 7:46:00 PM
Surr: 2-Fluorophenol	41.6	21-110		%REC	1	7/27/2004 7:46:00 PM
Surr: 4-Terphenyl-d14	104	39-141		%REC	1	7/27/2004 7:46:00 PM
Surr: Nitrobenzene-d5	95.2	37-140		%REC	1	7/27/2004 7:46:00 PM
Surr: Phenol-d6	26.9	11-100		%REC	1	7/27/2004 7:46:00 PM

VOLATILES BY GC/MS

SW8260

Analyst: HLBW

1,1,1-Trichloroethane	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
2-Butanone	ND	10	µg/L	1	7/28/2004 6:47:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	1	7/28/2004 6:47:00 PM
2-Hexanone	ND	10	µg/L	1	7/28/2004 6:47:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	1	7/28/2004 6:47:00 PM
Acetone	ND	10	µg/L	1	7/28/2004 6:47:00 PM
Benzene	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
Bromodichloromethane	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
Bromoform	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
Bromomethane	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM
Carbon disulfide	ND	10	µg/L	1	7/28/2004 6:47:00 PM
Carbon tetrachloride	ND	5.0	µg/L	1	7/28/2004 6:47:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-01

Client Sample ID: NCL-33
Collection Date: 7/19/2004 9:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Chloroethane	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Chloroform	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Chloromethane	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
m,p-Xylene	ND	10		µg/L	1	7/28/2004 6:47:00 PM
Methylene chloride	ND	10		µg/L	1	7/28/2004 6:47:00 PM
Styrene	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Toluene	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Trichloroethene	ND	5.0		µg/L	1	7/28/2004 6:47:00 PM
Vinyl acetate	ND	10		µg/L	1	7/28/2004 6:47:00 PM
Vinyl chloride	ND	2.0		µg/L	1	7/28/2004 6:47:00 PM
Xylenes, Total	ND	15		µg/L	1	7/28/2004 6:47:00 PM
Surr: 1,2-Dichloroethane-d4	88.5	71-126		%REC	1	7/28/2004 6:47:00 PM
Surr: 4-Bromofluorobenzene	108	74-125		%REC	1	7/28/2004 6:47:00 PM
Surr: Dibromofluoromethane	99.1	73-126		%REC	1	7/28/2004 6:47:00 PM
Surr: Toluene-d8	112	75-125		%REC	1	7/28/2004 6:47:00 PM
ANIONS BY ION CHROMATOGRAPHY						
				E300		Analyst: LMD
Chloride	289	5.00		mg/L	10	7/21/2004 2:42:00 AM
Fluoride	2.37	0.100		mg/L	1	7/20/2004 10:25:00 PM
Sulfate	377	10.0		mg/L	10	7/21/2004 2:42:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	7/20/2004 10:25:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120		%REC	1	7/20/2004 10:25:00 PM
Surr: Dichloroacetic acid (surr)	110	80-120		%REC	10	7/21/2004 2:42:00 AM
ALKALINITY						
				E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	640	5.00		mg/L	1	7/22/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Total (As CaCO ₃)	640	5.00		mg/L	1	7/22/2004
CYANIDE, TOTAL						
				E335.3		Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	7/25/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-02

Client Sample ID: NCL-34
Collection Date: 7/19/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	7/26/2004 5:00:34 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0532	0.0100		mg/L	1	7/27/2004 11:09:00 PM
Arsenic	ND	0.00500		mg/L	1	7/27/2004 11:09:00 PM
Barium	0.727	0.100		mg/L	20	7/28/2004 3:15:00 PM
Beryllium	ND	0.00200		mg/L	1	7/27/2004 11:09:00 PM
Boron	0.277	0.0200		mg/L	1	7/27/2004 11:09:00 PM
Cadmium	ND	0.00100		mg/L	1	7/27/2004 11:09:00 PM
Calcium	277	10.0		mg/L	20	7/28/2004 3:15:00 PM
Chromium	ND	0.00200		mg/L	1	7/27/2004 11:09:00 PM
Cobalt	ND	0.00200		mg/L	1	7/27/2004 11:09:00 PM
Copper	ND	0.00200		mg/L	1	7/27/2004 11:09:00 PM
Iron	0.292	0.200		mg/L	1	7/27/2004 11:09:00 PM
Lead	ND	0.00500		mg/L	1	7/27/2004 11:09:00 PM
Magnesium	108	4.00		mg/L	20	7/28/2004 3:15:00 PM
Manganese	0.109	0.00500		mg/L	1	7/27/2004 11:09:00 PM
Molybdenum	ND	0.00500		mg/L	1	7/27/2004 11:09:00 PM
Nickel	ND	0.00500		mg/L	1	7/27/2004 11:09:00 PM
Potassium	1.03	0.200		mg/L	1	7/27/2004 11:09:00 PM
Selenium	ND	0.00500		mg/L	1	7/27/2004 11:09:00 PM
Silver	ND	0.00500		mg/L	1	7/27/2004 11:09:00 PM
Sodium	162	4.00		mg/L	20	7/28/2004 3:15:00 PM
Vanadium	ND	0.00500		mg/L	1	7/27/2004 11:09:00 PM
Zinc	0.00856	0.00500		mg/L	1	7/27/2004 11:09:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/27/2004 8:16:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/27/2004 8:16:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
2-Methylphenol	ND	10		µg/L	1	7/27/2004 8:16:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/27/2004 8:16:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/27/2004 8:16:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/27/2004 8:16:00 PM
4-Methylphenol	ND	10		µg/L	1	7/27/2004 8:16:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/27/2004 8:16:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Acenaphthene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Acenaphthylene	ND	10		µg/L	1	7/27/2004 8:16:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-02

Client Sample ID: NCL-34
Collection Date: 7/19/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Anthracene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Benzidine	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Hexachloroethane	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Isophorone	ND	10		µg/L	1	7/27/2004 8:16:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/27/2004 8:16:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/27/2004 8:16:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Naphthalene	14	10		µg/L	1	7/27/2004 8:16:00 PM
Nitrobenzene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Phenanthrene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Phenol	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Pyrene	ND	10		µg/L	1	7/27/2004 8:16:00 PM
Surr: 2,4,6-Tribromophenol	116	39-153		%REC	1	7/27/2004 8:16:00 PM
Surr: 2-Fluorobiphenyl	96.5	40-147		%REC	1	7/27/2004 8:16:00 PM
Surr: 2-Fluorophenol	45.7	21-110		%REC	1	7/27/2004 8:16:00 PM
Surr: 4-Terphenyl-d14	99.3	39-141		%REC	1	7/27/2004 8:16:00 PM
Surr: Nitrobenzene-d5	97.6	37-140		%REC	1	7/27/2004 8:16:00 PM
Surr: Phenol-d6	28.5	11-100		%REC	1	7/27/2004 8:16:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: HLBW
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	45	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	30	10	µg/L	1
Benzene	2,600	120	µg/L	25
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-02

Client Sample ID: NCL-34
Collection Date: 7/19/2004 9:30:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Chloroethane	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Chloroform	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Chloromethane	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Ethylbenzene	200	120		µg/L	25	7/30/2004 2:43:00 AM
m,p-Xylene	240	10		µg/L	1	7/28/2004 5:18:00 PM
Methylene chloride	ND	10		µg/L	1	7/28/2004 5:18:00 PM
Styrene	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Toluene	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Trichloroethene	ND	5.0		µg/L	1	7/28/2004 5:18:00 PM
Vinyl acetate	ND	10		µg/L	1	7/28/2004 5:18:00 PM
Vinyl chloride	ND	2.0		µg/L	1	7/28/2004 5:18:00 PM
Xylenes, Total	240	15		µg/L	1	7/28/2004 5:18:00 PM
Surr: 1,2-Dichloroethane-d4	100	71-126		%REC	25	7/30/2004 2:43:00 AM
Surr: 1,2-Dichloroethane-d4	86.8	71-126		%REC	1	7/28/2004 5:18:00 PM
Surr: 4-Bromofluorobenzene	97.8	74-125		%REC	25	7/30/2004 2:43:00 AM
Surr: 4-Bromofluorobenzene	111	74-125		%REC	1	7/28/2004 5:18:00 PM
Surr: Dibromofluoromethane	96.4	73-126		%REC	1	7/28/2004 5:18:00 PM
Surr: Dibromofluoromethane	95.8	73-126		%REC	25	7/30/2004 2:43:00 AM
Surr: Toluene-d8	97.3	75-125		%REC	25	7/30/2004 2:43:00 AM
Surr: Toluene-d8	113	75-125		%REC	1	7/28/2004 5:18:00 PM
ANIONS BY ION CHROMATOGRAPHY						Analyst: LMD
				E300		
Chloride	364	5.00		mg/L	10	7/21/2004 3:10:00 AM
Fluoride	1.45	0.100		mg/L	1	7/20/2004 11:22:00 PM
Sulfate	154	10.0		mg/L	10	7/21/2004 3:10:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	7/20/2004 11:22:00 PM
Surr: Dichloroacetic acid (surr)	109	80-120		%REC	1	7/20/2004 11:22:00 PM
Surr: Dichloroacetic acid (surr)	110	80-120		%REC	10	7/21/2004 3:10:00 AM
ALKALINITY						Analyst: LMD
				E310.1		
Alkalinity, Bicarbonate (As CaCO ₃)	640	5.00		mg/L	1	7/22/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Total (As CaCO ₃)	640	5.00		mg/L	1	7/22/2004
CYANIDE, TOTAL						Analyst: LMD
				E335.3		
Cyanide	ND	0.0200		mg/L	1	7/25/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-03

Client Sample ID: MW-60
Collection Date: 7/19/2004 11:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	7/26/2004 5:02:05 PM
ICP METALS, TOTAL			SW6020			
Aluminum	0.0282	0.0100		mg/L	1	7/27/2004 11:15:00 PM
Arsenic	0.0334	0.00500		mg/L	1	7/27/2004 11:15:00 PM
Barium	0.0121	0.00500		mg/L	1	7/27/2004 11:15:00 PM
Beryllium	ND	0.00200		mg/L	1	7/27/2004 11:15:00 PM
Boron	0.477	0.0200		mg/L	1	7/27/2004 11:15:00 PM
Cadmium	ND	0.00100		mg/L	1	7/27/2004 11:15:00 PM
Calcium	399	25.0		mg/L	50	7/28/2004 3:21:00 PM
Chromium	ND	0.00200		mg/L	1	7/27/2004 11:15:00 PM
Cobalt	0.00682	0.00200		mg/L	1	7/27/2004 11:15:00 PM
Copper	ND	0.00200		mg/L	1	7/27/2004 11:15:00 PM
Iron	2.77	0.200		mg/L	1	7/27/2004 11:15:00 PM
Lead	ND	0.00500		mg/L	1	7/27/2004 11:15:00 PM
Magnesium	379	10.0		mg/L	50	7/28/2004 3:21:00 PM
Manganese	0.722	0.250		mg/L	50	7/28/2004 3:21:00 PM
Molybdenum	0.00603	0.00500		mg/L	1	7/27/2004 11:15:00 PM
Nickel	0.00687	0.00500		mg/L	1	7/27/2004 11:15:00 PM
Potassium	0.437	0.200		mg/L	1	7/27/2004 11:15:00 PM
Selenium	ND	0.00500		mg/L	1	7/27/2004 11:15:00 PM
Silver	ND	0.00500		mg/L	1	7/27/2004 11:15:00 PM
Sodium	277	10.0		mg/L	50	7/28/2004 3:21:00 PM
Vanadium	ND	0.00500		mg/L	1	7/27/2004 11:15:00 PM
Zinc	ND	0.00500		mg/L	1	7/27/2004 11:15:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/27/2004 8:45:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/27/2004 8:45:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
2-Methylphenol	ND	10		µg/L	1	7/27/2004 8:45:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/27/2004 8:45:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/27/2004 8:45:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/27/2004 8:45:00 PM
4-Methylphenol	ND	10		µg/L	1	7/27/2004 8:45:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/27/2004 8:45:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Acenaphthene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Acenaphthylene	ND	10		µg/L	1	7/27/2004 8:45:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-03

Client Sample ID: MW-60
Collection Date: 7/19/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Anthracene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Benzidine	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Hexachloroethane	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Isophorone	ND	10		µg/L	1	7/27/2004 8:45:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/27/2004 8:45:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/27/2004 8:45:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Naphthalene	14	10		µg/L	1	7/27/2004 8:45:00 PM
Nitrobenzene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Phenanthrene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Phenol	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Pyrene	ND	10		µg/L	1	7/27/2004 8:45:00 PM
Surr: 2,4,6-Tribromophenol	111	39-153		%REC	1	7/27/2004 8:45:00 PM
Surr: 2-Fluorobiphenyl	85.1	40-147		%REC	1	7/27/2004 8:45:00 PM
Surr: 2-Fluorophenol	44.0	21-110		%REC	1	7/27/2004 8:45:00 PM
Surr: 4-Terphenyl-d14	100	39-141		%REC	1	7/27/2004 8:45:00 PM
Surr: Nitrobenzene-d5	92.4	37-140		%REC	1	7/27/2004 8:45:00 PM
Surr: Phenol-d6	26.9	11-100		%REC	1	7/27/2004 8:45:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: HLBW
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	16	10	µg/L	1
Benzene	160	5.0	µg/L	1
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-03

Client Sample ID: MW-60
Collection Date: 7/19/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Chloroethane	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Chloroform	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Chloromethane	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Ethylbenzene	120	5.0		µg/L	1	7/28/2004 5:48:00 PM
m,p-Xylene	ND	10		µg/L	1	7/28/2004 5:48:00 PM
Methylene chloride	ND	10		µg/L	1	7/28/2004 5:48:00 PM
Styrene	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Toluene	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Trichloroethene	ND	5.0		µg/L	1	7/28/2004 5:48:00 PM
Vinyl acetate	ND	10		µg/L	1	7/28/2004 5:48:00 PM
Vinyl chloride	ND	2.0		µg/L	1	7/28/2004 5:48:00 PM
Xylenes, Total	ND	15		µg/L	1	7/28/2004 5:48:00 PM
Surr: 1,2-Dichloroethane-d4	85.6	71-126		%REC	1	7/28/2004 5:48:00 PM
Surr: 4-Bromofluorobenzene	109	74-125		%REC	1	7/28/2004 5:48:00 PM
Surr: Dibromofluoromethane	98.0	73-126		%REC	1	7/28/2004 5:48:00 PM
Surr: Toluene-d8	112	75-125		%REC	1	7/28/2004 5:48:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: LMD

Chloride	181	5.00	mg/L	10	7/21/2004 4:07:00 AM
Fluoride	0.870	0.100	mg/L	1	7/20/2004 11:51:00 PM
Sulfate	1,660	100	mg/L	100	7/21/2004 4:36:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	7/20/2004 11:51:00 PM
Surr: Dichloroacetic acid (surr)	108	80-120	%REC	1	7/20/2004 11:51:00 PM
Surr: Dichloroacetic acid (surr)	110	80-120	%REC	10	7/21/2004 4:07:00 AM
Surr: Dichloroacetic acid (surr)	110	80-120	%REC	100	7/21/2004 4:36:00 AM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	625	5.00	mg/L	1	7/22/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	7/22/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	7/22/2004
Alkalinity, Total (As CaCO ₃)	625	5.00	mg/L	1	7/22/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	7/25/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-04

Client Sample ID: MW-59
Collection Date: 7/19/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	7/26/2004 5:03:37 PM
ICP METALS, TOTAL			SW6020			
Aluminum	0.0143	0.0100		mg/L	1	7/27/2004 11:21:00 PM
Arsenic	0.0407	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Barium	0.0114	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Beryllium	ND	0.00200		mg/L	1	7/27/2004 11:21:00 PM
Boron	0.229	0.0200		mg/L	1	7/27/2004 11:21:00 PM
Cadmium	ND	0.00100		mg/L	1	7/27/2004 11:21:00 PM
Calcium	502	10.0		mg/L	20	7/28/2004 3:26:00 PM
Chromium	ND	0.00200		mg/L	1	7/27/2004 11:21:00 PM
Cobalt	0.00300	0.00200		mg/L	1	7/27/2004 11:21:00 PM
Copper	ND	0.00200		mg/L	1	7/27/2004 11:21:00 PM
Iron	0.301	0.200		mg/L	1	7/27/2004 11:21:00 PM
Lead	ND	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Magnesium	309	4.00		mg/L	20	7/28/2004 3:26:00 PM
Manganese	0.341	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Molybdenum	ND	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Nickel	ND	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Potassium	0.451	0.200		mg/L	1	7/27/2004 11:21:00 PM
Selenium	ND	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Silver	ND	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Sodium	163	4.00		mg/L	20	7/28/2004 3:26:00 PM
Vanadium	ND	0.00500		mg/L	1	7/27/2004 11:21:00 PM
Zinc	ND	0.00500		mg/L	1	7/27/2004 11:21:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/27/2004 9:14:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/27/2004 9:14:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
2-Methylphenol	ND	10		µg/L	1	7/27/2004 9:14:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/27/2004 9:14:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/27/2004 9:14:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/27/2004 9:14:00 PM
4-Methylphenol	ND	10		µg/L	1	7/27/2004 9:14:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/27/2004 9:14:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Acenaphthene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Acenaphthylene	ND	10		µg/L	1	7/27/2004 9:14:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-04

Client Sample ID: MW-59
Collection Date: 7/19/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Anthracene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Benzidine	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Hexachloroethane	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Isophorone	ND	10		µg/L	1	7/27/2004 9:14:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/27/2004 9:14:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/27/2004 9:14:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Naphthalene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Nitrobenzene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Phenanthrene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Phenol	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Pyrene	ND	10		µg/L	1	7/27/2004 9:14:00 PM
Surr: 2,4,6-Tribromophenol	114	39-153		%REC	1	7/27/2004 9:14:00 PM
Surr: 2-Fluorobiphenyl	100	40-147		%REC	1	7/27/2004 9:14:00 PM
Surr: 2-Fluorophenol	45.0	21-110		%REC	1	7/27/2004 9:14:00 PM
Surr: 4-Terphenyl-d14	108	39-141		%REC	1	7/27/2004 9:14:00 PM
Surr: Nitrobenzene-d5	89.8	37-140		%REC	1	7/27/2004 9:14:00 PM
Surr: Phenol-d6	28.5	11-100		%REC	1	7/27/2004 9:14:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: HLBW
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	190	50	µg/L	10
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-04

Client Sample ID: MW-59
Collection Date: 7/19/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Chloroethane	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Chloroform	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Chloromethane	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Ethylbenzene	35	5.0		µg/L	1	7/28/2004 6:18:00 PM
m,p-Xylene	ND	10		µg/L	1	7/28/2004 6:18:00 PM
Methylene chloride	ND	10		µg/L	1	7/28/2004 6:18:00 PM
Styrene	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Toluene	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Trichloroethene	ND	5.0		µg/L	1	7/28/2004 6:18:00 PM
Vinyl acetate	ND	10		µg/L	1	7/28/2004 6:18:00 PM
Vinyl chloride	ND	2.0		µg/L	1	7/28/2004 6:18:00 PM
Xylenes, Total	ND	15		µg/L	1	7/28/2004 6:18:00 PM
Surr: 1,2-Dichloroethane-d4	102	71-126		%REC	10	7/30/2004 3:10:00 AM
Surr: 1,2-Dichloroethane-d4	86.7	71-126		%REC	1	7/28/2004 6:18:00 PM
Surr: 4-Bromofluorobenzene	95.8	74-125		%REC	10	7/30/2004 3:10:00 AM
Surr: 4-Bromofluorobenzene	110	74-125		%REC	1	7/28/2004 6:18:00 PM
Surr: Dibromofluoromethane	102	73-126		%REC	10	7/30/2004 3:10:00 AM
Surr: Dibromofluoromethane	97.3	73-126		%REC	1	7/28/2004 6:18:00 PM
Surr: Toluene-d8	98.1	75-125		%REC	10	7/30/2004 3:10:00 AM
Surr: Toluene-d8	112	75-125		%REC	1	7/28/2004 6:18:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: LMD

Chloride	143	5.00	mg/L	10	7/21/2004 5:04:00 AM
Fluoride	1.42	0.100	mg/L	1	7/21/2004 12:19:00 AM
Sulfate	1,520	100	mg/L	100	7/21/2004 5:33:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	7/21/2004 12:19:00 AM
Surr: Dichloroacetic acid (surr)	111	80-120	%REC	1	7/21/2004 12:19:00 AM
Surr: Dichloroacetic acid (surr)	111	80-120	%REC	10	7/21/2004 5:04:00 AM
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	100	7/21/2004 5:33:00 AM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	470	5.00	mg/L	1	7/22/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	7/22/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	7/22/2004
Alkalinity, Total (As CaCO ₃)	470	5.00	mg/L	1	7/22/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.**Date:** August 02, 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL
Lab ID: 0407217-04

Client Sample ID: MW-59
Collection Date: 7/19/2004 1:45:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Cyanide	ND	0.0200		mg/L	1	7/25/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Aug 02 2004

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9719 InstrumentID: ICP7500

MBLK	Sample ID: MBLKW2-072304	Test Code: SW6020		Units: mg/L		Analysis Date: 07/27/04 16:54			
Client ID:	Run ID: ICP7500_040727A	SeqNo:	515521	Prep Date: 7/23/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
Aluminum	ND	0.010							
Arsenic	ND	0.0050							
Barium	0.0007406	0.0050							J
Beryllium	ND	0.0020							
Boron	ND	0.020							
Cadmium	ND	0.0020							
Calcium	ND	0.50							
Chromium	ND	0.0050							
Cobalt	ND	0.0050							
Copper	ND	0.0050							
Iron	ND	0.20							
Lead	ND	0.0050							
Magnesium	ND	0.20							
Manganese	ND	0.0050							
Molybdenum	ND	0.0050							
Nickel	ND	0.0050							
Potassium	ND	0.20							
Selenium	ND	0.0050							
Silver	ND	0.0050							
Sodium	ND	0.20							
Vanadium	ND	0.0050							
Zinc	ND	0.0050							

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9719 InstrumentID: ICP7500

LCS	Sample ID: MLCSW2-072304	Test Code: SW6020		Units: mg/L		Analysis Date: 07/27/04 17:00			
Client ID:	Run ID: ICP7500_040727A	SeqNo:	515522	Prep Date: 7/23/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Aluminum	0.04404	0.010	0.05	0	88.1	79-126	0		
Arsenic	0.04561	0.0050	0.05	0	91.2	80-121	0		
Barium	0.04268	0.0050	0.05	0	85.4	79.8-119	0		
Beryllium	0.04462	0.0020	0.05	0	89.2	78.9-120	0		
Boron	0.4575	0.020	0	0	0	80-120	0		
Cadmium	0.04323	0.0020	0.05	0	86.5	79.1-119	0		
Calcium	4.467	0.50	5	0	89.3	80-121	0		
Chromium	0.04384	0.0050	0.05	0	87.7	79.3-121	0		
Cobalt	0.04405	0.0050	0.05	0	88.1	82-121	0		
Copper	0.0421	0.0050	0.05	0	84.2	83-121	0		
Iron	4.681	0.20	5	0	93.6	80-120	0		
Lead	0.0416	0.0050	0.05	0	83.2	80-118	0		
Magnesium	4.73	0.20	5	0	94.6	80-120	0		
Manganese	0.0454	0.0050	0.05	0	90.8	82-119	0		
Molybdenum	0.04205	0.0050	0.05	0	84.1	80-115	0		
Nickel	0.04442	0.0050	0.05	0	88.8	85-120	0		
Potassium	4.784	0.20	5	0	95.7	80-120	0		
Selenium	0.04719	0.0050	0.05	0	94.4	79.2-118	0		
Silver	0.04051	0.0050	0.05	0	81	80-117	0		
Sodium	4.574	0.20	5	0	91.5	82.4-120	0		
Vanadium	0.04393	0.0050	0.05	0	87.9	82.1-119	0		
Zinc	0.04662	0.0050	0.05	0	93.2	83-118	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9719 InstrumentID: ICP7500

MS	Sample ID: 0407190-21BMS	Test Code: SW6020		Units: mg/L		Analysis Date: 07/28/04 17:03		
Client ID:		Run ID:	ICP7500_040728A	SeqNo:	516183	Prep Date:	7/23/2004	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
Aluminum	0.1084	0.050	0.05	0.0864	44.1	79-126	0	S
Arsenic	0.04904	0.025	0.05	-0.002334	103	80-121	0	
Barium	0.06	0.025	0.05	0.01274	94.5	79.8-119	0	
Beryllium	0.04032	0.010	0.05	0.0001654	80.3	78.9-120	0	
Boron	5.78	0.10	0.1	5.165	615	80-120	0	SEO
Cadmium	0.0474	0.010	0.05	0.000711	93.4	79.1-119	0	
Calcium	462.4	2.5	5	479.9	-349	80-121	0	SO
Chromium	0.04748	0.025	0.05	0.001852	91.2	79.3-121	0	
Cobalt	0.2184	0.025	0.05	0.1738	89.4	82-121	0	
Copper	0.04715	0.025	0.05	0.00434	85.6	83-121	0	
Iron	64.45	1.0	5	60.75	74	80-120	0	SO
Lead	0.05045	0.025	0.05	0.0009415	99	80-118	0	
Magnesium	263.1	1.0	5	299.2	-722	80-120	0	SO
Manganese	5.315	0.025	0.05	5.415	-200	82-119	0	SO
Molybdenum	0.04951	0.025	0.05	0.0008995	97.2	84.6-115	0	
Nickel	0.2467	0.025	0.05	0.2064	80.6	85-120	0	SO
Potassium	25.46	1.0	5	21.94	70.5	80-120	0	SO
Selenium	0.0543	0.025	0.05	0.004083	100	79.2-118	0	
Silver	0.03953	0.025	0.05	-0.006395	91.8	83-117	0	
Sodium	1999	1.0	5	2293	-5880	82.4-120	0	SEO
Vanadium	0.04824	0.025	0.05	-0.001036	98.6	82.1-119	0	
Zinc	0.3632	0.025	0.05	0.3274	71.7	83-118	0	SO

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9719 InstrumentID: ICP7500

MSD	Sample ID: 0407190-21BMSD	Test Code: SW6020		Units: mg/L		Analysis Date: 07/28/04 17:09				
Client ID:	Run ID: ICP7500_040728A	SeqNo:	516184	Prep Date: 7/23/2004	DF: 5					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1049	0.050	0.05	0.0864	37.1	79-126	0.1084	3.28	15	S
Arsenic	0.04779	0.025	0.05	-0.002334	100	80-121	0.04904	2.58	15	
Barium	0.0584	0.025	0.05	0.01274	91.3	79.8-119	0.06	2.7	15	
Beryllium	0.04005	0.010	0.05	0.0001654	79.8	78.9-120	0.04032	0.659	15	
Boron	5.665	0.10	0	5.165	0	80-120	5.78	2.01	15	E
Cadmium	0.04558	0.010	0.05	0.000711	89.7	79.1-119	0.0474	3.91	15	
Calcium	446.6	2.5	5	479.9	-665	80-121	462.4	3.48	15	SO
Chromium	0.0458	0.025	0.05	0.001852	87.9	79.3-121	0.04748	3.59	15	
Cobalt	0.2088	0.025	0.05	0.1738	70.2	82-121	0.2184	4.49	15	S
Copper	0.04564	0.025	0.05	0.00434	82.6	83-121	0.04715	3.27	15	S
Iron	62.1	1.0	5	60.75	27	80-120	64.45	3.71	15	SO
Lead	0.04957	0.025	0.05	0.0009415	97.3	80-118	0.05045	1.75	15	
Magnesium	245.2	1.0	5	299.2	-1080	80-120	263.1	7.04	15	SO
Manganese	5.19	0.025	0.05	5.415	-450	82-119	5.315	2.38	15	SO
Molybdenum	0.0512	0.025	0.05	0.0008995	101	84.6-115	0.04951	3.36	15	
Nickel	0.2372	0.025	0.05	0.2064	61.7	85-120	0.2467	3.91	15	SO
Potassium	24.44	1.0	5	21.94	49.9	80-120	25.46	4.13	15	SO
Selenium	0.04666	0.025	0.05	0.004083	85.1	79.2-118	0.0543	15.1	15	R
Silver	0.0387	0.025	0.05	-0.006395	90.2	83-117	0.03953	2.13	15	
Sodium	1860	1.0	5	2293	-8670	82.4-120	1999	7.23	15	SEO
Vanadium	0.04678	0.025	0.05	-0.001036	95.6	82.1-119	0.04824	3.08	15	
Zinc	0.356	0.025	0.05	0.3274	57.4	83-118	0.3632	1.99	15	SO

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9719 InstrumentID: ICP7500

DUP	Sample ID: 0407190-21BDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 07/28/04 16:51				
Client ID:		Run ID:	ICP7500_040728A	SeqNo:	516182	Prep Date:	7/23/2004	DF:	5	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.0711	0.050	0	0	0	0-0	0.0864	19.4	25	
Arsenic	ND	0.025	0	0	0	0-0	-0.002334	0	25	
Barium	0.01118	0.025	0	0	0	0-0	0.01274	0	25	J
Beryllium	ND	0.010	0	0	0	0-0	0.0001654	0	25	
Boron	5.275	0.10	0	0	0	0-0	5.165	2.11	25	E
Cadmium	ND	0.010	0	0	0	0-0	0.000711	0	25	
Calcium	467	2.5	0	0	0	0-0	479.9	2.74	25	
Chromium	ND	0.025	0	0	0	0-0	0.001852	0	25	
Cobalt	0.1734	0.025	0	0	0	0-0	0.1738	0.23	25	
Copper	0.004558	0.025	0	0	0	0-0	0.00434	0	25	J
Iron	60.3	1.0	0	0	0	0-0	60.75	0.743	25	
Lead	ND	0.025	0	0	0	0-0	0.0009415	0	25	
Magnesium	263	1.0	0	0	0	0-0	299.2	12.9	25	
Manganese	5.385	0.025	0	0	0	0-0	5.415	0.556	25	
Molybdenum	ND	0.025	0	0	0	0-0	0.0008995	0	25	
Nickel	0.2028	0.025	0	0	0	0-0	0.2064	1.76	25	
Potassium	20.86	1.0	0	0	0	0-0	21.94	5.02	25	
Selenium	0.01156	0.025	0	0	0	0-0	0.004083	0	25	J
Silver	ND	0.025	0	0	0	0-0	-0.006395	0	25	
Sodium	2021	1.0	0	0	0	0-0	2293	12.6	25	E
Vanadium	ND	0.025	0	0	0	0-0	-0.001036	0	25	
Zinc	0.323	0.025	0	0	0	0-0	0.3274	1.32	25	

The following samples were analyzed in this batch:

0407217-01C	0407217-02C	0407217-03C
0407217-04C		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9741 InstrumentID: **Mercury**

MLBK Sample ID: GBLKW2-072604			Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:25			
Client ID: Run ID: MERCURY_040726B SeqNo: 514829										
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	
Mercury		ND		0.00020					Qual	
LCS Sample ID: GLCSW2-072604			Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:26			
Client ID: Run ID: MERCURY_040726B SeqNo: 514830										
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	
Mercury		0.00499	0.00020	0.005	0	99.8	83-115	0	Qual	
LCSD Sample ID: GLCSDW2-072604			Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:28			
Client ID: Run ID: MERCURY_040726B SeqNo: 514831										
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	
Mercury		0.0048	0.00020	0.005	0	96	83-115	0.00499	3.88	20
MS Sample ID: 0407160-01CMS			Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:37			
Client ID: Run ID: MERCURY_040726B SeqNo: 514834										
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	
Mercury		0.00515	0.00020	0.005	0.000013	103	83-115	0	Qual	
MSD Sample ID: 0407160-01CMDS			Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:38			
Client ID: Run ID: MERCURY_040726B SeqNo: 514835										
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	
Mercury		0.00522	0.00020	0.005	0.000013	104	83-115	0.00515	1.35	20
DUP Sample ID: 0407160-01CDUP			Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:35			
Client ID: Run ID: MERCURY_040726B SeqNo: 514833										
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	
Mercury		ND	0.00020	0	0	0	0-0	0.000013	0	20

The following samples were analyzed in this batch:

0407217-01C	0407217-02C	0407217-03C
0407217-04C		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9711 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-040722	Test Code: SW8270		Units: µg/L		Analysis Date: 07/27/04 10:46			
Client ID:		Run ID:	SV-3_040725B	SeqNo:	515922	Prep Date:	7/22/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3-Nitroaniline	ND	10							
4-Methylphenol	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	115.4	10	100	0	115	39-153	0		
Surr: 2-Fluorobiphenyl	98.83	10	100	0	98.8	40-147	0		
Surr: 2-Fluorophenol	41.45	10	100	0	41.5	21-110	0		
Surr: 4-Terphenyl-d14	111.2	10	100	0	111	39-141	0		
Surr: Nitrobenzene-d5	96.08	10	100	0	96.1	37-140	0		
Surr: Phenol-d6	25.33	10	100	0	25.3	11-100	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9711 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-040722	Test Code: SW8270		Units: µg/L		Analysis Date: 07/27/04 11:11		
Client ID:		Run ID: SV-3_040725B	SeqNo: 515923	Prep Date: 7/22/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	49.81	10	50	0	99.6	50-115	0	
2,4,5-Trichlorophenol	105.9	10	100	0	106	68-128	0	
2,4,6-Trichlorophenol	105	10	100	0	105	66-125	0	
2-Methylnaphthalene	48.44	10	50	0	96.9	47-122	0	
2-Methylphenol	75.9	10	100	0	75.9	51-115	0	
2-Nitroaniline	53.38	10	50	0	107	64-128	0	
2-Nitrophenol	100.5	10	100	0	101	60-119	0	
3-Nitroaniline	47.3	10	50	0	94.6	61-118	0	
4-Methylphenol	103.4	10	150	0	68.9	44-115	0	
4-Nitroaniline	53.45	10	50	0	107	61-123	0	
4-Nitrophenol	42.79	10	100	0	42.8	17-100	0	
Acenaphthene	52.49	10	50	0	105	68-115	0	
Acenaphthylene	51.48	10	50	0	103	67-116	0	
Aniline	41.7	10	50	0	83.4	40-130	0	
Anthracene	54.48	10	50	0	109	70-129	0	
Benz(a)anthracene	55.16	10	50	0	110	55-131	0	
Benzidine	13.89	10	50	0	27.8	10-115	0	
Hexachloroethane	48.85	10	50	0	97.7	46-115	0	
Indeno(1,2,3-cd)pyrene	56.63	10	50	0	113	42-123	0	
Isophorone	52.58	10	50	0	105	63-117	0	
N-Nitrosodi-n-propylamine	51.32	10	50	0	103	67-115	0	
N-Nitrosodimethylamine	23.33	10	50	0	46.7	28-115	0	
N-Nitrosodiphenylamine	54.38	10	50	0	109	72-144	0	
Naphthalene	48.75	10	50	0	97.5	52-115	0	
Nitrobenzene	50.51	10	50	0	101	65-115	0	
Pentachlorophenol	112.2	10	100	0	112	65-123	0	
Phenanthrene	53.73	10	50	0	107	69-119	0	
Phenol	32.16	10	100	0	32.2	16-115	0	
Pyrene	48.29	10	50	0	96.6	51-130	0	
Surr: 2,4,6-Tribromophenol	115.2	10	100	0	115	39-153	0	
Surr: 2-Fluorobiphenyl	100.6	10	100	0	101	40-147	0	
Surr: 2-Fluorophenol	50.77	10	100	0	50.8	21-110	0	
Surr: 4-Terphenyl-d14	108.8	10	100	0	109	39-141	0	
Surr: Nitrobenzene-d5	100.6	10	100	0	101	37-140	0	
Surr: Phenol-d6	28.97	10	100	0	29	11-100	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **9711** InstrumentID: **SV-3**

LCSD	Sample ID: SLCSDW1-040722	Test Code: SW8270		Units: µg/L		Analysis Date: 07/27/04 11:35				
Client ID:	Run ID: SV-3_040725B	SeqNo:	515924	Prep Date:	7/22/2004	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	50.66	10	50	0	101	50-115	49.81	1.69	30	
2,4,5-Trichlorophenol	107.3	10	100	0	107	68-128	105.9	1.29	30	
2,4,6-Trichlorophenol	102.2	10	100	0	102	66-125	105	2.65	30	
2-Methylnaphthalene	47.74	10	50	0	95.5	47-122	48.44	1.46	30	
2-Methylphenol	77.8	10	100	0	77.8	51-115	75.9	2.48	30	
2-Nitroaniline	52.72	10	50	0	105	64-128	53.38	1.25	30	
2-Nitrophenol	103.9	10	100	0	104	60-119	100.5	3.25	30	
3-Nitroaniline	48.69	10	50	0	97.4	61-118	47.3	2.89	30	
4-Methylphenol	102.7	10	150	0	68.5	44-115	103.4	0.619	30	
4-Nitroaniline	51.65	10	50	0	103	61-123	53.45	3.43	30	
4-Nitrophenol	41.98	10	100	0	42	17-100	42.79	1.92	30	
Acenaphthene	50.09	10	50	0	100	68-115	52.49	4.67	30	
Acenaphthylene	50.78	10	50	0	102	67-116	51.48	1.38	30	
Aniline	40.77	10	50	0	81.5	40-130	41.7	2.26	30	
Anthracene	52.93	10	50	0	106	70-129	54.48	2.87	30	
Benz(a)anthracene	51.84	10	50	0	104	55-131	55.16	6.21	30	
Benzidine	12.43	10	50	0	24.9	10-115	13.89	11.1	30	
Hexachloroethane	50.67	10	50	0	101	46-115	48.85	3.66	30	
Indeno(1,2,3-cd)pyrene	55.85	10	50	0	112	42-123	56.63	1.4	30	
Isophorone	53.06	10	50	0	106	63-117	52.58	0.898	30	
N-Nitrosodi-n-propylamine	51.62	10	50	0	103	67-115	51.32	0.575	30	
N-Nitrosodimethylamine	25.31	10	50	0	50.6	28-115	23.33	8.14	30	
N-Nitrosodiphenylamine	54.8	10	50	0	110	72-144	54.38	0.771	30	
Naphthalene	48.99	10	50	0	98	52-115	48.75	0.497	30	
Nitrobenzene	50.51	10	50	0	101	65-115	50.51	0.0127	30	
Pentachlorophenol	103.7	10	100	0	104	65-123	112.2	7.83	30	
Phenanthrene	52.79	10	50	0	106	69-119	53.73	1.75	30	
Phenol	33.67	10	100	0	33.7	16-115	32.16	4.58	30	
Pyrene	49.66	10	50	0	99.3	51-130	48.29	2.79	30	
Surr: 2,4,6-Tribromophenol	114.1	10	100	0	114	39-153	115.2	0.976	30	
Surr: 2-Fluorobiphenyl	99.96	10	100	0	100	40-147	100.6	0.594	30	
Surr: 2-Fluorophenol	52.2	10	100	0	52.2	21-110	50.77	2.78	30	
Surr: 4-Terphenyl-d14	106.7	10	100	0	107	39-141	108.8	1.92	30	
Surr: Nitrobenzene-d5	102.3	10	100	0	102	37-140	100.6	1.63	30	
Surr: Phenol-d6	37.36	10	100	0	37.4	11-100	28.97	25.3	30	

The following samples were analyzed in this batch:

0407217-01E	0407217-02E	0407217-03E
0407217-04E		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22061 InstrumentID: VOA3

MBLK	Sample ID: VBLKW-0728			Test Code: SW8260	Units: µg/L		Analysis Date: 07/28/04 10:24			
Client ID:		Run ID:	VOA3_040728A	SeqNo:	515976	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	53.68	5.0	50	0	107	71-126	0			
Surr: 4-Bromofluorobenzene	51.07	5.0	50	0	102	74-125	0			
Surr: Dibromofluoromethane	55.16	5.0	50	0	110	73-126	0			
Surr: Toluene-d8	55.07	5.0	50	0	110	75-125	0			

ND - Not Detected at the Reporting Limit

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O - Referenced analytic value is > 4 times amount spiked

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22061 InstrumentID: VOA3

LCS	Sample ID: VLCSW-0728	Test Code: SW8260		Units: µg/L		Analysis Date: 07/28/04 9:24		
Client ID:		Run ID:	VOA3_040728A	SeqNo:	515975	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %RPD Qual
1,1,1-Trichloroethane	50.94	5.0	50	0	102	75.2-120	0	0
1,1,2,2-Tetrachloroethane	49.25	5.0	50	0	98.5	72.4-121	0	0
1,1,2-Trichloroethane	49.47	5.0	50	0	98.9	80-120	0	0
1,1-Dichloroethane	49.92	5.0	50	0	99.8	76.9-120	0	0
1,1-Dichloroethene	49.99	5.0	50	0	100	72.6-123	0	0
1,2-Dichloroethane	48.83	5.0	50	0	97.7	80-120	0	0
2-Butanone	101.3	10	100	0	101	69-131	0	0
2-Chloroethyl vinyl ether	97.24	10	100	0	97.2	60-135	0	0
2-Hexanone	98.42	10	100	0	98.4	55.6-126	0	0
4-Methyl-2-pentanone	102	10	100	0	102	67.4-121	0	0
Acetone	108.4	10	100	0	108	64.4-140	0	0
Benzene	49	5.0	50	0	98	80-120	0	0
Bromodichloromethane	51.04	5.0	50	0	102	80-120	0	0
Bromoform	49.33	5.0	50	0	98.7	77.9-121	0	0
Bromomethane	47.55	5.0	50	0	95.1	63.3-137	0	0
Carbon disulfide	103.9	10	100	0	104	74.1-123	0	0
Carbon tetrachloride	52.05	5.0	50	0	104	74.7-120	0	0
Chlorobenzene	49.75	5.0	50	0	99.5	80-120	0	0
Chloroethane	49.38	5.0	50	0	98.8	74.7-126	0	0
Chloroform	50.79	5.0	50	0	102	80-120	0	0
Chloromethane	49.97	5.0	50	0	99.9	64.5-132	0	0
cis-1,3-Dichloropropene	52.64	5.0	50	0	105	80-120	0	0
Dibromochloromethane	49.12	5.0	50	0	98.2	80-120	0	0
Ethylbenzene	51.2	5.0	50	0	102	80-120	0	0
m,p-Xylene	103.2	10	100	0	103	80-120	0	0
Methylene chloride	47.85	10	50	0	95.7	76.2-120	0	0
Styrene	50.42	5.0	50	0	101	80-120	0	0
Tetrachloroethene	48.36	5.0	50	0	96.7	68.5-130	0	0
Toluene	50.82	5.0	50	0	102	80-120	0	0
trans-1,3-Dichloropropene	51.93	5.0	50	0	104	80-120	0	0
Trichloroethene	50.75	5.0	50	0	102	78.9-120	0	0
Vinyl acetate	108.6	10	100	0	109	62.4-133	0	0
Vinyl chloride	50.63	2.0	50	0	101	72.7-128	0	0
Xylenes, Total	156	15	150	0	104	80-120	0	0
Surr: 1,2-Dichloroethane-d4	53.36	5.0	50	0	107	71-126	0	0
Surr: 4-Bromofluorobenzene	55.29	5.0	50	0	111	74-125	0	0
Surr: Dibromofluoromethane	54.7	5.0	50	0	109	73-126	0	0
Surr: Toluene-d8	53.19	5.0	50	0	106	75-125	0	0

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22061 InstrumentID: VOA3

MS	Sample ID: 0407280-01AMS			Test Code: SW8260	Units: µg/L		Analysis Date: 07/28/04 13:51			
Client ID:		Run ID: VOA3_040728A		SeqNo: 515981	Prep Date:		DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1356	120	1250	0	108	75.2-120	0	0	0	
1,1,2,2-Tetrachloroethane	1298	120	1250	0	104	72.4-121	0	0	0	
1,1,2-Trichloroethane	1281	120	1250	0	102	80-120	0	0	0	
1,1-Dichloroethane	1321	120	1250	0	106	76.9-120	0	0	0	
1,1-Dichloroethene	1357	120	1250	0	109	72.6-123	0	0	0	
1,2-Dichloroethane	1319	120	1250	0	105	80-120	0	0	0	
2-Butanone	2574	250	2500	0	103	69-131	0	0	0	
2-Chloroethyl vinyl ether	2407	250	2500	0	96.3	60-135	0	0	0	
2-Hexanone	2447	250	2500	0	97.9	55.6-126	0	0	0	
4-Methyl-2-pentanone	2521	250	2500	0	101	67.4-121	0	0	0	
Acetone	2671	250	2500	0	107	64.4-140	0	0	0	
Benzene	1299	120	1250	0	104	80-120	0	0	0	
Bromodichloromethane	1339	120	1250	0	107	80-120	0	0	0	
Bromoform	1248	120	1250	0	99.8	77.9-121	0	0	0	
Bromomethane	1454	120	1250	0	116	63.3-137	0	0	0	
Carbon disulfide	2754	250	2500	0	110	74.1-123	0	0	0	
Carbon tetrachloride	1379	120	1250	0	110	74.7-120	0	0	0	
Chlorobenzene	1306	120	1250	0	104	80-120	0	0	0	
Chloroethane	1337	120	1250	0	107	74.7-126	0	0	0	
Chloroform	1365	120	1250	0	109	80-120	0	0	0	
Chloromethane	1231	120	1250	0	98.5	64.5-132	0	0	0	
cis-1,3-Dichloropropene	1357	120	1250	0	109	80-120	0	0	0	
Dibromochloromethane	1236	120	1250	0	98.9	80-120	0	0	0	
Ethylbenzene	1335	120	1250	0	107	80-120	0	0	0	
m,p-Xylene	2702	250	2500	0	108	80-120	0	0	0	
Methylene chloride	1290	250	1250	0	103	76.2-120	0	0	0	
Styrene	1282	120	1250	0	103	80-120	0	0	0	
Tetrachloroethene	1266	120	1250	0	101	68.5-130	0	0	0	
Toluene	1332	120	1250	0	107	80-120	0	0	0	
trans-1,3-Dichloropropene	1308	120	1250	0	105	80-120	0	0	0	
Trichloroethene	1312	120	1250	0	105	78.9-120	0	0	0	
Vinyl acetate	2885	250	2500	0	115	62.4-133	0	0	0	
Vinyl chloride	1290	50	1250	0	103	72.7-128	0	0	0	
Xylenes, Total	4073	380	3750	0	109	80-120	0	0	0	
Surr: 1,2-Dichloroethane-d4	1326	120	1250	0	106	71-126	0	0	0	
Surr: 4-Bromofluorobenzene	1386	120	1250	0	111	74-125	0	0	0	
Surr: Dibromofluoromethane	1369	120	1250	0	110	73-126	0	0	0	
Surr: Toluene-d8	1389	120	1250	0	111	75-125	0	0	0	

ND - Not Detected at the Reporting Limit

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O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22061 InstrumentID: VOA3

MSD	Sample ID: 0407280-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/28/04 14:21			
Client ID:		Run ID: VOA3_040728A	SeqNo: 516045	Prep Date:		DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	1340	120	1250	0	107	75.2-120	1356	1.18	20
1,1,2,2-Tetrachloroethane	1324	120	1250	0	106	72.4-121	1298	1.97	20
1,1,2-Trichloroethane	1261	120	1250	0	101	80-120	1281	1.62	20
1,1-Dichloroethane	1299	120	1250	0	104	76.9-120	1321	1.67	20
1,1-Dichloroethene	1319	120	1250	0	106	72.6-123	1357	2.83	20
1,2-Dichloroethane	1267	120	1250	0	101	80-120	1319	3.95	20
2-Butanone	2620	250	2500	0	105	69-131	2574	1.75	20
2-Chloroethyl vinyl ether	2387	250	2500	0	95.5	60-135	2407	0.831	20
2-Hexanone	2447	250	2500	0	97.9	55.6-126	2447	0.00678	20
4-Methyl-2-pentanone	2595	250	2500	0	104	67.4-121	2521	2.88	20
Acetone	2663	250	2500	0	107	64.4-140	2671	0.306	20
Benzene	1292	120	1250	0	103	80-120	1299	0.589	20
Bromodichloromethane	1312	120	1250	0	105	80-120	1339	2.05	20
Bromoform	1263	120	1250	0	101	77.9-121	1248	1.24	20
Bromomethane	1341	120	1250	0	107	63.3-137	1454	8.07	20
Carbon disulfide	2745	250	2500	0	110	74.1-123	2754	0.302	20
Carbon tetrachloride	1333	120	1250	0	107	74.7-120	1379	3.38	20
Chlorobenzene	1268	120	1250	0	101	80-120	1306	2.96	20
Chloroethane	1329	120	1250	0	106	74.7-126	1337	0.608	20
Chloroform	1345	120	1250	0	108	80-120	1365	1.5	20
Chloromethane	1261	120	1250	0	101	64.5-132	1231	2.45	20
cis-1,3-Dichloropropene	1362	120	1250	0	109	80-120	1357	0.42	20
Dibromochloromethane	1265	120	1250	0	101	80-120	1236	2.32	20
Ethylbenzene	1378	120	1250	0	110	80-120	1335	3.15	20
m,p-Xylene	2689	250	2500	0	108	80-120	2702	0.47	20
Methylene chloride	1273	250	1250	0	102	76.2-120	1290	1.29	20
Styrene	1311	120	1250	0	105	80-120	1282	2.26	20
Tetrachloroethene	1286	120	1250	0	103	68.5-130	1266	1.57	20
Toluene	1332	120	1250	0	107	80-120	1332	0.0102	20
trans-1,3-Dichloropropene	1351	120	1250	0	108	80-120	1308	3.22	20
Trichloroethene	1304	120	1250	0	104	78.9-120	1312	0.609	20
Vinyl acetate	2907	250	2500	0	116	62.4-133	2885	0.761	20
Vinyl chloride	1335	50	1250	0	107	72.7-128	1290	3.43	20
Xylenes, Total	4080	380	3750	0	109	80-120	4073	0.187	20
Surr: 1,2-Dichloroethane-d4	1300	120	1250	0	104	71-126	1326	2.03	20
Surr: 4-Bromofluorobenzene	1323	120	1250	0	106	74-125	1386	4.64	20
Surr: Dibromofluoromethane	1334	120	1250	0	107	73-126	1369	2.58	20
Surr: Toluene-d8	1374	120	1250	0	110	75-125	1389	1.11	20

The following samples were analyzed in this batch:

0407217-01A	0407217-02A	0407217-03A
0407217-04A		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22101 InstrumentID: VOA1

MBLK	Sample ID: VBLKW-0729	Test Code: SW8260		Units: µg/L		Analysis Date: 07/29/04 20:47		
Client ID:	Run ID: VOA1_040729A	SeqNo:	516997	Prep Date:	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	48.04	5.0	50	0	96.1	71-126	0	
Surr: 4-Bromofluorobenzene	48.08	5.0	50	0	96.2	74-125	0	
Surr: Dibromofluoromethane	47.93	5.0	50	0	95.9	73-126	0	
Surr: Toluene-d8	49.33	5.0	50	0	98.7	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

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B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R22101** InstrumentID: **VOA1**

LCS	Sample ID: VLCSW-0729			Test Code: SW8260	Units: µg/L		Analysis Date: 07/29/04 20:19			
Client ID:		Run ID: VOA1_040729A		SeqNo: 516996	Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.73	5.0	50	0	97.5	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	47.3	5.0	50	0	94.6	72.4-121	0	0		
1,1,2-Trichloroethane	49.28	5.0	50	0	98.6	80-120	0	0		
1,1-Dichloroethane	47.79	5.0	50	0	95.6	76.9-120	0	0		
1,1-Dichloroethene	44.53	5.0	50	0	89.1	72.6-123	0	0		
1,2-Dichloroethane	48.18	5.0	50	0	96.4	80-120	0	0		
2-Butanone	89.5	10	100	0	89.5	69-131	0	0		
2-Chloroethyl vinyl ether	101.5	10	100	0	102	60-135	0	0		
2-Hexanone	95.16	10	100	0	95.2	55.6-126	0	0		
4-Methyl-2-pentanone	90.62	10	100	0	90.6	67.4-121	0	0		
Acetone	83.59	10	100	0	83.6	64.4-140	0	0		
Benzene	53.95	5.0	50	0	108	80-120	0	0		
Bromodichloromethane	51.31	5.0	50	0	103	80-120	0	0		
Bromoform	49.2	5.0	50	0	98.4	77.9-121	0	0		
Bromomethane	52.63	5.0	50	0	105	63.3-137	0	0		
Carbon disulfide	98.9	10	100	0	98.9	74.1-123	0	0		
Carbon tetrachloride	51.31	5.0	50	0	103	74.7-120	0	0		
Chlorobenzene	52.43	5.0	50	0	105	80-120	0	0		
Chloroethane	52.32	5.0	50	0	105	74.7-126	0	0		
Chloroform	46.67	5.0	50	0	93.3	80-120	0	0		
Chloromethane	51.2	5.0	50	0	102	64.5-132	0	0		
cis-1,3-Dichloropropene	53.37	5.0	50	0	107	80-120	0	0		
Dibromochloromethane	49.31	5.0	50	0	98.6	80-120	0	0		
Ethylbenzene	55.64	5.0	50	0	111	80-120	0	0		
m,p-Xylene	112.3	10	100	0	112	80-120	0	0		
Methylene chloride	46.43	10	50	0	92.9	76.2-120	0	0		
Styrene	49.89	5.0	50	0	99.8	80-120	0	0		
Tetrachloroethene	50.88	5.0	50	0	102	68.5-130	0	0		
Toluene	53.13	5.0	50	0	106	80-120	0	0		
trans-1,3-Dichloropropene	53.85	5.0	50	0	108	80-120	0	0		
Trichloroethene	52.39	5.0	50	0	105	78.9-120	0	0		
Vinyl acetate	105.6	10	100	0	106	62.4-133	0	0		
Vinyl chloride	51.68	2.0	50	0	103	72.7-128	0	0		
Xylenes, Total	165.4	15	150	0	110	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	41.76	5.0	50	0	83.5	71-126	0	0		
Surr: 4-Bromofluorobenzene	50.53	5.0	50	0	101	74-125	0	0		
Surr: Dibromofluoromethane	43.63	5.0	50	0	87.3	73-126	0	0		
Surr: Toluene-d8	49.85	5.0	50	0	99.7	75-125	0	0		

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R22101 InstrumentID: VOA1

MS	Sample ID: 0407328-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 07/29/04 22:09		
Client ID:	Run ID: VOA1_040729A	SeqNo:	516999	Prep Date:	DF:	500		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	23960	2,500	25000	0	95.8	75.2-120	0	
1,1,2,2-Tetrachloroethane	23590	2,500	25000	0	94.3	72.4-121	0	
1,1,2-Trichloroethane	24260	2,500	25000	0	97	80-120	0	
1,1-Dichloroethane	21990	2,500	25000	0	88	76.9-120	0	
1,1-Dichloroethene	21580	2,500	25000	0	86.3	72.6-123	0	
1,2-Dichloroethane	24340	2,500	25000	0	97.4	80-120	0	
2-Butanone	44920	5,000	50000	0	89.8	69-131	0	
2-Chloroethyl vinyl ether	48580	5,000	50000	0	97.2	60-135	0	
2-Hexanone	45510	5,000	50000	0	91	55.6-126	0	
4-Methyl-2-pentanone	44160	5,000	50000	0	88.3	67.4-121	0	
Acetone	39830	5,000	50000	0	79.7	64.4-140	0	
Benzene	43560	2,500	25000	16670	108	80-120	0	
Bromodichloromethane	24490	2,500	25000	0	98	80-120	0	
Bromoform	25000	2,500	25000	0	100	77.9-121	0	
Bromomethane	24200	2,500	25000	0	96.8	63.3-137	0	
Carbon disulfide	44380	5,000	50000	0	88.8	74.1-123	0	
Carbon tetrachloride	47150	2,500	25000	22830	97.3	74.7-120	0	
Chlorobenzene	101700	2,500	25000	81740	79.9	80-120	0	SE
Chloroethane	23150	2,500	25000	0	92.6	74.7-126	0	
Chloroform	39070	2,500	25000	15600	93.9	80-120	0	
Chloromethane	22830	2,500	25000	0	91.3	64.5-132	0	
cis-1,3-Dichloropropene	26000	2,500	25000	0	104	80-120	0	
Dibromochloromethane	24030	2,500	25000	0	96.1	80-120	0	
Ethylbenzene	25870	2,500	25000	0	103	80-120	0	
m,p-Xylene	51430	5,000	50000	0	103	80-120	0	
Methylene chloride	23420	5,000	25000	0	93.7	76.2-120	0	
Styrene	23310	2,500	25000	0	93.2	80-120	0	
Tetrachloroethene	23610	2,500	25000	0	94.5	68.5-130	0	
Toluene	24350	2,500	25000	0	97.4	80-120	0	
trans-1,3-Dichloropropene	25890	2,500	25000	0	104	80-120	0	
Trichloroethene	24430	2,500	25000	0	97.7	78.9-120	0	
Vinyl acetate	60400	5,000	50000	0	121	62.4-133	0	
Vinyl chloride	22130	1,000	25000	0	88.5	72.7-128	0	
Xylenes, Total	77490	7,500	75000	0	103	80-120	0	
Surr: 1,2-Dichloroethane-d4	22360	2,500	25000	0	89.5	71-126	0	
Surr: 4-Bromofluorobenzene	24400	2,500	25000	0	97.6	74-125	0	
Surr: Dibromofluoromethane	22010	2,500	25000	0	88	73-126	0	
Surr: Toluene-d8	23620	2,500	25000	0	94.5	75-125	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spikcd

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R22101** InstrumentID: **VOA1**

MSD	Sample ID: 0407328-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/29/04 22:36			
Client ID:	Run ID: VOA1_040729A	SeqNo:	517000	Prep Date:	DF: 500				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	23460	2,500	25000	0	93.9	75.2-120	23960	2.1	20
1,1,2,2-Tetrachloroethane	23800	2,500	25000	0	95.2	72.4-121	23580	0.893	20
1,1,2-Trichloroethane	26130	2,500	25000	0	105	80-120	24260	7.42	20
1,1-Dichloroethane	26090	2,500	25000	0	104	76.9-120	21990	17.1	20
1,1-Dichloroethene	22460	2,500	25000	0	89.8	72.6-123	21580	4.01	20
1,2-Dichloroethane	27110	2,500	25000	0	108	80-120	24340	10.7	20
2-Butanone	50310	5,000	50000	0	101	69-131	44920	11.3	20
2-Chloroethyl vinyl ether	48990	5,000	50000	0	98	60-135	48580	0.827	20
2-Hexanone	45740	5,000	50000	0	91.5	55.6-126	45510	0.487	20
4-Methyl-2-pentanone	47430	5,000	50000	0	94.9	67.4-121	44160	7.13	20
Acetone	41450	5,000	50000	0	82.9	64.4-140	39830	4	20
Benzene	43600	2,500	25000	16670	108	80-120	43560	0.0867	20
Bromodichloromethane	25150	2,500	25000	0	101	80-120	24490	2.64	20
Bromoform	24660	2,500	25000	0	98.7	77.9-121	25000	1.36	20
Bromomethane	22810	2,500	25000	0	91.3	63.3-137	24200	5.88	20
Carbon disulfide	43210	5,000	50000	0	86.4	74.1-123	44380	2.66	20
Carbon tetrachloride	46500	2,500	25000	22830	94.7	74.7-120	47150	1.39	20
Chlorobenzene	103500	2,500	25000	81740	87.1	80-120	101700	1.74	20 E
Chloroethane	22900	2,500	25000	0	91.6	74.7-126	23150	1.06	20
Chloroform	41460	2,500	25000	15600	103	80-120	39070	5.92	20
Chloromethane	20970	2,500	25000	0	83.9	64.5-132	22830	8.45	20
cis-1,3-Dichloropropene	25290	2,500	25000	0	101	80-120	26000	2.8	20
Dibromochloromethane	26050	2,500	25000	0	104	80-120	24030	8.08	20
Ethylbenzene	24600	2,500	25000	0	98.4	80-120	25870	5.06	20
m,p-Xylene	47780	5,000	50000	0	95.6	80-120	51430	7.36	20
Methylene chloride	23500	5,000	25000	0	94	76.2-120	23420	0.356	20
Styrene	23200	2,500	25000	0	92.8	80-120	23310	0.493	20
Tetrachloroethene	22170	2,500	25000	0	88.7	68.5-130	23610	6.3	20
Toluene	24640	2,500	25000	0	98.6	80-120	24350	1.21	20
trans-1,3-Dichloropropene	25270	2,500	25000	0	101	80-120	25890	2.42	20
Trichloroethene	24060	2,500	25000	0	96.2	78.9-120	24430	1.51	20
Vinyl acetate	69210	5,000	50000	0	138	62.4-133	60400	13.6	20 S
Vinyl chloride	20320	1,000	25000	0	81.3	72.7-128	22130	8.52	20
Xylenes, Total	73090	7,500	75000	0	97.4	80-120	77490	5.85	20
Surr: 1,2-Dichloroethane-d4	25070	2,500	25000	0	100	71-126	22360	11.4	20
Surr: 4-Bromofluorobenzene	24000	2,500	25000	0	96	74-125	24400	1.65	20
Surr: Dibromofluoromethane	24250	2,500	25000	0	97	73-126	22010	9.68	20
Surr: Toluene-d8	25020	2,500	25000	0	100	75-125	23620	5.76	20

The following samples were analyzed in this batch:

0407217-02A 0407217-04A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21861 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-072004		Test Code: E300		Units: mg/L		Analysis Date: 07/20/04 21:00			
Client ID:		Run ID: IC201_040720A		SeqNo: 511332		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		ND	0.50								
Fluoride		ND	0.10								
Sulfate		ND	1.0								
Nitrate/Nitrite (as N)		ND	0.10								
Surr: Dichloroacetic acid (surr)		5.08	0.10	5	0	102	80-120		0		

LCS		Sample ID: WLCSW1-072004		Test Code: E300		Units: mg/L		Analysis Date: 07/20/04 21:28			
Client ID:		Run ID: IC201_040720A		SeqNo: 511333		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		9.04	0.50	10	0	90.4	80-120		0		
Fluoride		1.89	0.10	2	0	94.5	80-120		0		
Sulfate		9.63	1.0	10	0	96.3	80-120		0		
Nitrate/Nitrite (as N)		3.84	0.10	0	0	0	80-120		0		
Surr: Dichloroacetic acid (surr)		5.42	0.10	5	0	108	80-120		0		

LCSD		Sample ID: WLCSW1DUP-072		Test Code: E300		Units: mg/L		Analysis Date: 07/20/04 21:57			
Client ID:		Run ID: IC201_040720A		SeqNo: 511334		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		9.04	0.50	10	0	90.4	80-120		0		
Fluoride		1.89	0.10	2	0	94.5	80-120		0		
Sulfate		9.65	1.0	10	0	96.5	80-120		0		
Nitrate/Nitrite (as N)		3.84	0.10	0	0	0	80-120		0		
Surr: Dichloroacetic acid (surr)		5.44	0.10	5	0	109	80-120		0		

MS		Sample ID: 0407217-01BMS		Test Code: E300		Units: mg/L		Analysis Date: 07/21/04 1:45			
Client ID:		Run ID: IC201_040720A		SeqNo: 511342		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride		351.6	0.50	10	345.6	59.8	75-125		0		SEO
Fluoride		4.28	0.10	2	2.37	95.5	75-125		0		
Sulfate		487.3	1.0	10	483	43.2	75-125		0		SEO
Nitrate/Nitrite (as N)		4.02	0.10	4	0.32	92.5	75-125		0		
Surr: Dichloroacetic acid (surr)		5.02	0.10	5	0	100	80-120		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21861 InstrumentID: IC201

MSD Sample ID: 0407217-01BMSD Test Code: E300 Units: mg/L Analysis Date: 07/21/04 2:13

Client ID: NCL-33 Run ID: IC201_040720A SeqNo: 511343 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	351.9	0.50	10	345.6	62.1	75-125	351.6	0.0654	20	SEO
Fluoride	4.28	0.10	2	2.37	95.5	75-125	4.28	0	20	
Sulfate	487.6	1.0	10	483	46.3	75-125	487.3	0.0636	20	SEO
Nitrate/Nitrite (as N)	4.04	0.10	4	0.32	93	75-125	4.02	0.496	20	
Surr: Dichloroacetic acid (surr)	5.24	0.10	5	0	105	80-120	5.02	4.29	20	

DUP Sample ID: 0407217-01BDUP Test Code: E300 Units: mg/L Analysis Date: 07/20/04 22:54

Client ID: NCL-33 Run ID: IC201_040720A SeqNo: 511336 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	2.33	0.10	0	0	0	0-0	2.37	1.7	20	
Nitrate/Nitrite (as N)	0.32	0.10	0	0	0	0-0	0.32	0	20	
Surr: Dichloroacetic acid (surr)	5.07	0.10	5	0	101	80-120	5.39	6.12	20	

DUP Sample ID: 0407217-02BDUP Test Code: E300 Units: mg/L Analysis Date: 07/21/04 3:39

Client ID: NCL-34 Run ID: IC201_040720A SeqNo: 511346 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	363.7	5.0	0	0	0	0-0	363.7	0	20	
Fluoride	2.2	1.0	0	0	0	0-0	2.2	0	20	
Sulfate	153.7	10	0	0	0	0-0	153.9	0.13	20	
Nitrate/Nitrite (as N)	ND	1.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	55	1.0	50	0	110	80-120	54.9	0.182	20	

DUP Sample ID: 0407217-04BDUP Test Code: E300 Units: mg/L Analysis Date: 07/21/04 6:01

Client ID: MW-59 Run ID: IC201_040720A SeqNo: 511351 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	220	50	0	0	0	0-0	221	0.454	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1520	100	0	0	0	0-0	1519	0.0658	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	548	10	500	0	110	80-120	545	0.549	20	

The following samples were analyzed in this batch:

0407217-01B	0407217-02B	0407217-03B
0407217-04B		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21916 InstrumentID: WetChem

MBLK	Sample ID: WBLKW1-072204	Test Code: E310.1	Units: mg/L	Analysis Date: 07/22/04 0:00
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Client ID:	Run ID: WETCHEM_040722A	SeqNo: 512756	Prep Date:	DF: 1
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS	Sample ID: WLCSW1-072204	Test Code: E310.1	Units: mg/L	Analysis Date: 07/22/04 0:00
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Client ID:	Run ID: WETCHEM_040722A	SeqNo: 512757	Prep Date:	DF: 1
------------	-------------------------	---------------	------------	-------

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	-1	0	0-0	0	0		
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0	0		

DUP	Sample ID: 0407119-02DDUP	Test Code: E310.1	Units: mg/L	Analysis Date: 07/22/04 0:00
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Client ID:	Run ID: WETCHEM_040722A	SeqNo: 512775	Prep Date:	DF: 1
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	340.1	5.0	0	0	0	0-0	340.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	340.1	5.0	0	0	0	0-0	340.1	0	20	

DUP	Sample ID: 0407217-04BDUP	Test Code: E310.1	Units: mg/L	Analysis Date: 07/22/04 0:00
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Client ID: MW-59	Run ID: WETCHEM_040722A	SeqNo: 512776	Prep Date:	DF: 1
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Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	470.1	5.0	0	0	0	0-0	470.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	470.1	5.0	0	0	0	0-0	470.1	0	20	

The following samples were analyzed in this batch:

0407217-01B	0407217-02B	0407217-03B
0407217-04B		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407217
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21983 InstrumentID: UV-2101PC

MBLK		Sample ID: WBLKW1-072504		Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00			
Client ID:		Run ID: UV-2101PC_040725A		SeqNo: 513927		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND		0.020							
LCS		Sample ID: WLCSW1-072504		Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00			
Client ID:		Run ID: UV-2101PC_040725A		SeqNo: 513928		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.2044	0.020	0.2	0	102	80-120		0		
MS		Sample ID: 0407271-02DMS		Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00			
Client ID:		Run ID: UV-2101PC_040725A		SeqNo: 513940		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.2105	0.020	0.2	0.0032	104	75-125		0		
MSD		Sample ID: 0407271-02DMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00			
Client ID:		Run ID: UV-2101PC_040725A		SeqNo: 513941		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.2092	0.020	0.2	0.0032	103	75-125	0.2105	0.619	25	
DUP		Sample ID: 0407271-02DDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 07/25/04 0:00			
Client ID:		Run ID: UV-2101PC_040725A		SeqNo: 513939		Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.003	0.020	0	0	0	0-0	0.0032	0	20	J

The following samples were analyzed in this batch:

0407217-01D	0407217-02D	0407217-03D
0407217-04D		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range



e-Lab, Inc.
10450 Stanciff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information

Customer Information		Project Information		Parameter/Method Request for Analysis													
Purchase Order	Project Name	NCL/TEL	A	e-Lab Project Manager:													
Work Order	Project Number	TEL	B														
Company Name	Bill To Company	Some	C														
Send Report To	Invoice Attn.		D														
Address	Address		E														
City/State/Zip	City/State/Zip		F														
Phone	Phone		G														
Fax	Fax		H														
e-Mail Address	e-Mail Address		I														
No.	Sample Description	Date	Time	Matrix	Pres Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	NCL-33	7/19/04	0900	L	12,98	8	X										
2	NCL-34		0930	1	1												
3	MW-60		1100	1													
4	MW-59		1345	1													
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s); Please Print & Sign		Shipment Method:		Required Turnaround Time (Check Box)		Results Due Date:											
<u>Jeff Byrd</u>		FCL/Ex		<input type="checkbox"/> 1 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		<input type="checkbox"/> Other _____											
Relinquished by:		Date:	Time:	Received by (Laboratory):	Date:	Time:	Notes: <u>2 COCs</u>										
<u>Jeff Byrd</u>		<u>7/19/04</u>	<u>16:15</u>	<u>Received by (Laboratory):</u>	<u>Date:</u>	<u>Time:</u>											
Reinquired by:		Date:	Time:	Checked by (Laboratory):	Date:	Time:											
		<u>7/20/04</u>	<u>28:45</u>	<u>Checked by (Laboratory):</u>	<u>Date:</u>	<u>Time:</u>											
Logged by (Laboratory):		Date:	Time:														
		<u>7/20/04</u>	<u>28:45</u>														
Preservative Key:		1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C								

Note: Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.

e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 7/20/2004 8:45:00 AM

Work Order Number 0407217

Received by: FSM

Checklist completed by TJ

Signature

Date

7/20/04

Reviewed by ME

Initials

7/20/04

Date

Matrix: L

Carrier name FedEx

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 23, 36C 003

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

NAVAJO REFINING COMPANY
501 E. MAIN STREET
ARTESIA NM 88210
5057483311

SHIP DATE: 19JUL2004
RCCOUNT #: 113684186

NAVAJO REFINING COMPANY
501 E. MAIN STREET
ARTESIA NM 88210
5057483311

SHIP DATE: 19JUL2004
ACCOUNT #: 113684186

TO: E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099

2815305656
BILL RECIPIENT

TO:

E-LAB
SAMPLE RECEIVING
10450 STANCLIFF ROAD STE 210
HOUSTON TX 77099

2815305656
BILL RECIPIENT

FedEx STANDARD OVERNIGHT

TUE
DELIVER BY:
20JUL2004
IAH A2
System # 2223500 19JUL2004
TRK# 7902 1230 3151 Form 0201

77099-TX-US A9 JGQA

TUE
DELIVER BY:
20JUL2004
IAH A2

System # 2223500 19JUL2004
TRK# 7902 1230 7709 Form 0201

77099-TX-US A9 JGQA

FedEx STANDARD OVERNIGHT

TUE

DELIVER BY:
20JUL2004
IAH A2

System # 2223500 19JUL2004
TRK# 7902 1230 7709 Form 0201

DELIVER BY:
20JUL2004
IAH A2

2815305656
BILL RECIPIENT

77099-TX-US A9 JGQA

OSUS V5.2 00 2223500 2844 04/02
OSUS V5.2 00 2223500 2844 04/02



e-Lab Analytical, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

July 28, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0407160**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 3 samples on 7/15/2004 8:50:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 31.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0407160

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0407160-01	MW-53	Water		7/14/2004 10:45	7/15/2004 08:50	<input type="checkbox"/>
0407160-02	MW-54A	Water		7/14/2004 11:10	7/15/2004 08:50	<input type="checkbox"/>
0407160-03	MW-55	Water		7/14/2004 13:30	7/15/2004 08:50	<input type="checkbox"/>

e-Lab Analytical, Inc.

Date: *July 28, 2004*

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0407160

Case Narrative

Batch R21773 Volatiles MS/MSD was an unrelated sample.

Batch R21757 Anions (sample MW-53) MS/MSD recoveries were outside of control limits for Sulfate (recoveries were S and O flagged) and Fluoride (74% in the MSD only). Recoveries were within control limits in the LCS/LCSD..

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-01

Client Sample ID: MW-53
Collection Date: 7/14/2004 10:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	7/26/2004 4:34:02 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0204	0.0100		mg/L	1	7/22/2004 5:59:00 AM
Arsenic	ND	0.00500		mg/L	1	7/22/2004 5:59:00 AM
Barium	0.0283	0.00500		mg/L	1	7/22/2004 5:59:00 AM
Beryllium	ND	0.00200		mg/L	1	7/22/2004 5:59:00 AM
Boron	0.337	0.0200		mg/L	1	7/22/2004 5:59:00 AM
Cadmium	ND	0.00100		mg/L	1	7/22/2004 5:59:00 AM
Calcium	288	10.0		mg/L	20	7/22/2004 9:05:00 PM
Chromium	ND	0.00200		mg/L	1	7/22/2004 5:59:00 AM
Cobalt	0.00523	0.00200		mg/L	1	7/22/2004 5:59:00 AM
Copper	ND	0.00200		mg/L	1	7/22/2004 5:59:00 AM
Iron	ND	0.200		mg/L	1	7/22/2004 5:59:00 AM
Lead	ND	0.00500		mg/L	1	7/22/2004 5:59:00 AM
Magnesium	167	4.00		mg/L	20	7/22/2004 9:05:00 PM
Manganese	1.76	0.100		mg/L	20	7/22/2004 9:05:00 PM
Molybdenum	0.0171	0.00500		mg/L	1	7/22/2004 5:59:00 AM
Nickel	0.00578	0.00500		mg/L	1	7/22/2004 5:59:00 AM
Potassium	1.09	0.200		mg/L	1	7/22/2004 5:59:00 AM
Selenium	ND	0.00500		mg/L	1	7/22/2004 5:59:00 AM
Silver	ND	0.00500		mg/L	1	7/22/2004 5:59:00 AM
Sodium	122	4.00		mg/L	20	7/22/2004 9:05:00 PM
Vanadium	0.00612	0.00500		mg/L	1	7/22/2004 5:59:00 AM
Zinc	ND	0.00500		mg/L	1	7/22/2004 5:59:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/21/2004 8:19:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/21/2004 8:19:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
2-Methylphenol	ND	10		µg/L	1	7/21/2004 8:19:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/21/2004 8:19:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/21/2004 8:19:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/21/2004 8:19:00 PM
4-Methylphenol	ND	10		µg/L	1	7/21/2004 8:19:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/21/2004 8:19:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Acenaphthene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Acenaphthylene	ND	10		µg/L	1	7/21/2004 8:19:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-01

Client Sample ID: MW-53
Collection Date: 7/14/2004 10:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Anthracene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Benzidine	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Hexachloroethane	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Isophorone	ND	10		µg/L	1	7/21/2004 8:19:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/21/2004 8:19:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/21/2004 8:19:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Naphthalene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Nitrobenzene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Phenanthrene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Phenol	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Pyrene	ND	10		µg/L	1	7/21/2004 8:19:00 PM
Surr: 2,4,6-Tribromophenol	83.6	39-153		%REC	1	7/21/2004 8:19:00 PM
Surr: 2-Fluorobiphenyl	75.7	40-147		%REC	1	7/21/2004 8:19:00 PM
Surr: 2-Fluorophenol	33.7	21-110		%REC	1	7/21/2004 8:19:00 PM
Surr: 4-Terphenyl-d14	78.2	39-141		%REC	1	7/21/2004 8:19:00 PM
Surr: Nitrobenzene-d5	71.9	37-140		%REC	1	7/21/2004 8:19:00 PM
Surr: Phenol-d6	20.2	11-100		%REC	1	7/21/2004 8:19:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	7/16/2004 8:04:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	7/16/2004 8:04:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	7/16/2004 8:04:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	7/16/2004 8:04:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	7/16/2004 8:04:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	7/16/2004 8:04:00 PM
2-Butanone	ND	10	µg/L	7/16/2004 8:04:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	7/16/2004 8:04:00 PM
2-Hexanone	ND	10	µg/L	7/16/2004 8:04:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	7/16/2004 8:04:00 PM
Acetone	ND	10	µg/L	7/16/2004 8:04:00 PM
Benzene	ND	5.0	µg/L	7/16/2004 8:04:00 PM
Bromodichloromethane	ND	5.0	µg/L	7/16/2004 8:04:00 PM
Bromoform	ND	5.0	µg/L	7/16/2004 8:04:00 PM
Bromomethane	ND	5.0	µg/L	7/16/2004 8:04:00 PM
Carbon disulfide	ND	10	µg/L	7/16/2004 8:04:00 PM
Carbon tetrachloride	ND	5.0	µg/L	7/16/2004 8:04:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-01

Client Sample ID: MW-53
Collection Date: 7/14/2004 10:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Chloroethane	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Chloroform	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Chloromethane	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
m,p-Xylene	ND	10		µg/L	1	7/16/2004 8:04:00 PM
Methylene chloride	ND	10		µg/L	1	7/16/2004 8:04:00 PM
Styrene	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Toluene	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Trichloroethene	ND	5.0		µg/L	1	7/16/2004 8:04:00 PM
Vinyl acetate	ND	10		µg/L	1	7/16/2004 8:04:00 PM
Vinyl chloride	ND	2.0		µg/L	1	7/16/2004 8:04:00 PM
Xylenes, Total	ND	15		µg/L	1	7/16/2004 8:04:00 PM
Surr: 1,2-Dichloroethane-d4	91.5	71-126		%REC	1	7/16/2004 8:04:00 PM
Surr: 4-Bromofluorobenzene	84.3	74-125		%REC	1	7/16/2004 8:04:00 PM
Surr: Dibromofluoromethane	90.9	73-126		%REC	1	7/16/2004 8:04:00 PM
Surr: Toluene-d8	88.4	75-125		%REC	1	7/16/2004 8:04:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	56.5	2.50	mg/L	5
Fluoride	1.17	0.100	mg/L	1
Sulfate	943	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	100
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	1

ALKALINITY

		E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	320	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	320	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-02

Client Sample ID: MW-54A
Collection Date: 7/14/2004 11:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	7/26/2004 4:42:30 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	7/22/2004 6:05:00 AM
Arsenic	0.00583	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Barium	0.0169	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Beryllium	ND	0.00200		mg/L	1	7/22/2004 6:05:00 AM
Boron	0.337	0.0200		mg/L	1	7/22/2004 6:05:00 AM
Cadmium	ND	0.00100		mg/L	1	7/22/2004 6:05:00 AM
Calcium	379	10.0		mg/L	20	7/22/2004 9:28:00 PM
Chromium	ND	0.00200		mg/L	1	7/22/2004 6:05:00 AM
Cobalt	0.00239	0.00200		mg/L	1	7/22/2004 6:05:00 AM
Copper	ND	0.00200		mg/L	1	7/22/2004 6:05:00 AM
Iron	0.387	0.200		mg/L	1	7/22/2004 6:05:00 AM
Lead	ND	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Magnesium	123	4.00		mg/L	20	7/22/2004 9:28:00 PM
Manganese	0.461	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Molybdenum	0.00868	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Nickel	ND	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Potassium	0.234	0.200		mg/L	1	7/22/2004 6:05:00 AM
Selenium	ND	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Silver	ND	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Sodium	47.1	0.200		mg/L	1	7/22/2004 6:05:00 AM
Vanadium	0.00528	0.00500		mg/L	1	7/22/2004 6:05:00 AM
Zinc	0.00635	0.00500		mg/L	1	7/22/2004 6:05:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/21/2004 8:44:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/21/2004 8:44:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
2-Methylphenol	ND	10		µg/L	1	7/21/2004 8:44:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/21/2004 8:44:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/21/2004 8:44:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/21/2004 8:44:00 PM
4-Methylphenol	ND	10		µg/L	1	7/21/2004 8:44:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/21/2004 8:44:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Acenaphthene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Acenaphthylene	ND	10		µg/L	1	7/21/2004 8:44:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-02

Client Sample ID: MW-54A
Collection Date: 7/14/2004 11:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Anthracene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Benzidine	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Hexachloroethane	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Isophorone	ND	10		µg/L	1	7/21/2004 8:44:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/21/2004 8:44:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/21/2004 8:44:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Naphthalene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Nitrobenzene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Phenanthrene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Phenol	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Pyrene	ND	10		µg/L	1	7/21/2004 8:44:00 PM
Surr: 2,4,6-Tribromophenol	84.9	39-153		%REC	1	7/21/2004 8:44:00 PM
Surr: 2-Fluorobiphenyl	74.9	40-147		%REC	1	7/21/2004 8:44:00 PM
Surr: 2-Fluorophenol	31.6	21-110		%REC	1	7/21/2004 8:44:00 PM
Surr: 4-Terphenyl-d14	78.1	39-141		%REC	1	7/21/2004 8:44:00 PM
Surr: Nitrobenzene-d5	71.8	37-140		%REC	1	7/21/2004 8:44:00 PM
Surr: Phenol-d6	21.8	11-100		%REC	1	7/21/2004 8:44:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	7/16/2004 8:30:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	7/16/2004 8:30:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	7/16/2004 8:30:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	7/16/2004 8:30:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	7/16/2004 8:30:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	7/16/2004 8:30:00 PM
2-Butanone	ND	10	µg/L	7/16/2004 8:30:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	7/16/2004 8:30:00 PM
2-Hexanone	ND	10	µg/L	7/16/2004 8:30:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	7/16/2004 8:30:00 PM
Acetone	ND	10	µg/L	7/16/2004 8:30:00 PM
Benzene	ND	5.0	µg/L	7/16/2004 8:30:00 PM
Bromodichloromethane	ND	5.0	µg/L	7/16/2004 8:30:00 PM
Bromoform	ND	5.0	µg/L	7/16/2004 8:30:00 PM
Bromomethane	ND	5.0	µg/L	7/16/2004 8:30:00 PM
Carbon disulfide	ND	10	µg/L	7/16/2004 8:30:00 PM
Carbon tetrachloride	ND	5.0	µg/L	7/16/2004 8:30:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-02

Client Sample ID: MW-54A
Collection Date: 7/14/2004 11:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Chloroethane	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Chloroform	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Chloromethane	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
m,p-Xylene	ND	10		µg/L	1	7/16/2004 8:30:00 PM
Methylene chloride	ND	10		µg/L	1	7/16/2004 8:30:00 PM
Styrene	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Toluene	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Trichloroethene	ND	5.0		µg/L	1	7/16/2004 8:30:00 PM
Vinyl acetate	ND	10		µg/L	1	7/16/2004 8:30:00 PM
Vinyl chloride	ND	2.0		µg/L	1	7/16/2004 8:30:00 PM
Xylenes, Total	ND	15		µg/L	1	7/16/2004 8:30:00 PM
Surr: 1,2-Dichloroethane-d4	90.4	71-126		%REC	1	7/16/2004 8:30:00 PM
Surr: 4-Bromofluorobenzene	87.4	74-125		%REC	1	7/16/2004 8:30:00 PM
Surr: Dibromofluoromethane	92.6	73-126		%REC	1	7/16/2004 8:30:00 PM
Surr: Toluene-d8	88.0	75-125		%REC	1	7/16/2004 8:30:00 PM

ANIONS BY ION CHROMATOGRAPHY

	E300			Analyst: MG
Chloride	173	2.50	mg/L	5
Fluoride	1.20	0.100	mg/L	1
Sulfate	627	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	100

ALKALINITY

	E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	465	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	465	5.00	mg/L	1

CYANIDE, TOTAL

	E335.3			Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-03

Client Sample ID: MW-55
Collection Date: 7/14/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	7/26/2004 4:44:01 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	7/22/2004 6:39:00 AM
Arsenic	0.00530	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Barium	0.00770	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Beryllium	ND	0.00200		mg/L	1	7/22/2004 6:39:00 AM
Boron	0.484	0.0200		mg/L	1	7/22/2004 6:39:00 AM
Cadmium	ND	0.00100		mg/L	1	7/22/2004 6:39:00 AM
Calcium	449	25.0		mg/L	50	7/22/2004 9:34:00 PM
Chromium	ND	0.00200		mg/L	1	7/22/2004 6:39:00 AM
Cobalt	ND	0.00200		mg/L	1	7/22/2004 6:39:00 AM
Copper	ND	0.00200		mg/L	1	7/22/2004 6:39:00 AM
Iron	ND	0.200		mg/L	1	7/22/2004 6:39:00 AM
Lead	ND	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Magnesium	260	10.0		mg/L	50	7/22/2004 9:34:00 PM
Manganese	0.485	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Molybdenum	0.0279	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Nickel	0.00693	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Potassium	0.806	0.200		mg/L	1	7/22/2004 6:39:00 AM
Selenium	ND	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Silver	ND	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Sodium	196	10.0		mg/L	50	7/22/2004 9:34:00 PM
Vanadium	0.0132	0.00500		mg/L	1	7/22/2004 6:39:00 AM
Zinc	ND	0.00500		mg/L	1	7/22/2004 6:39:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/21/2004 9:08:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/21/2004 9:08:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
2-Methylphenol	ND	10		µg/L	1	7/21/2004 9:08:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/21/2004 9:08:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/21/2004 9:08:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/21/2004 9:08:00 PM
4-Methylphenol	ND	10		µg/L	1	7/21/2004 9:08:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/21/2004 9:08:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Acenaphthene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Acenaphthylene	ND	10		µg/L	1	7/21/2004 9:08:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-03

Client Sample ID: MW-55
Collection Date: 7/14/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Anthracene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Benzidine	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Hexachloroethane	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Isophorone	ND	10		µg/L	1	7/21/2004 9:08:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/21/2004 9:08:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/21/2004 9:08:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Naphthalene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Nitrobenzene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Phenanthrene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Phenol	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Pyrene	ND	10		µg/L	1	7/21/2004 9:08:00 PM
Surr: 2,4,6-Tribromophenol	81.8	39-153		%REC	1	7/21/2004 9:08:00 PM
Surr: 2-Fluorobiphenyl	73.0	40-147		%REC	1	7/21/2004 9:08:00 PM
Surr: 2-Fluorophenol	32.5	21-110		%REC	1	7/21/2004 9:08:00 PM
Surr: 4-Terphenyl-d14	77.0	39-141		%REC	1	7/21/2004 9:08:00 PM
Surr: Nitrobenzene-d5	70.2	37-140		%REC	1	7/21/2004 9:08:00 PM
Surr: Phenol-d6	20.8	11-100		%REC	1	7/21/2004 9:08:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	7/16/2004 8:55:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	7/16/2004 8:55:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	7/16/2004 8:55:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	7/16/2004 8:55:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	7/16/2004 8:55:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	7/16/2004 8:55:00 PM
2-Butanone	ND	10	µg/L	7/16/2004 8:55:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	7/16/2004 8:55:00 PM
2-Hexanone	ND	10	µg/L	7/16/2004 8:55:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	7/16/2004 8:55:00 PM
Acetone	ND	10	µg/L	7/16/2004 8:55:00 PM
Benzene	ND	5.0	µg/L	7/16/2004 8:55:00 PM
Bromodichloromethane	ND	5.0	µg/L	7/16/2004 8:55:00 PM
Bromoform	ND	5.0	µg/L	7/16/2004 8:55:00 PM
Bromomethane	ND	5.0	µg/L	7/16/2004 8:55:00 PM
Carbon disulfide	ND	10	µg/L	7/16/2004 8:55:00 PM
Carbon tetrachloride	ND	5.0	µg/L	7/16/2004 8:55:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL
Lab ID: 0407160-03

Client Sample ID: MW-55
Collection Date: 7/14/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Chloroethane	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Chloroform	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Chloromethane	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Ethylbenzene	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
m,p-Xylene	ND	10		µg/L	1	7/16/2004 8:55:00 PM
Methylene chloride	ND	10		µg/L	1	7/16/2004 8:55:00 PM
Styrene	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Toluene	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Trichloroethene	ND	5.0		µg/L	1	7/16/2004 8:55:00 PM
Vinyl acetate	ND	10		µg/L	1	7/16/2004 8:55:00 PM
Vinyl chloride	ND	2.0		µg/L	1	7/16/2004 8:55:00 PM
Xylenes, Total	ND	15		µg/L	1	7/16/2004 8:55:00 PM
Surr: 1,2-Dichloroethane-d4	89.5	71-126		%REC	1	7/16/2004 8:55:00 PM
Surr: 4-Bromofluorobenzene	87.3	74-125		%REC	1	7/16/2004 8:55:00 PM
Surr: Dibromofluoromethane	91.0	73-126		%REC	1	7/16/2004 8:55:00 PM
Surr: Toluene-d8	88.1	75-125		%REC	1	7/16/2004 8:55:00 PM
ANIONS BY ION CHROMATOGRAPHY						Analyst: MG
Chloride	290	50.0		mg/L	100	7/16/2004 1:54:00 AM
Fluoride	1.13	0.100		mg/L	1	7/16/2004 12:57:00 AM
Sulfate	1,560	100		mg/L	100	7/16/2004 1:54:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	7/16/2004 12:57:00 AM
Surr: Dichloroacetic acid (surr)	101	80-120		%REC	1	7/16/2004 12:57:00 AM
Surr: Dichloroacetic acid (surr)	106	80-120		%REC	100	7/16/2004 1:54:00 AM
ALKALINITY						Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	375	5.00		mg/L	1	7/22/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Total (As CaCO ₃)	375	5.00		mg/L	1	7/22/2004
CYANIDE, TOTAL						Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	7/17/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
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e-Lab Analytical, Inc.

Date: Jul 28 2004

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9647 InstrumentID: ICP7500

MBLK Sample ID: MBLKW1-071904				Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 5:48		
Client ID:		Run ID: ICP7500_040721C		SeqNo: 512507		Prep Date: 7/19/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	ND	0.0050								
Barium	0.01107	0.0050								
Beryllium	ND	0.0020								
Boron	ND	0.020								
Cadmium	ND	0.0020								
Calcium	0.2675	0.50								J
Chromium	ND	0.0050								
Cobalt	ND	0.0050								
Copper	ND	0.0050								
Iron	0.03845	0.20								J
Lead	ND	0.0050								
Magnesium	ND	0.20								
Manganese	ND	0.0050								
Molybdenum	ND	0.0050								
Nickel	ND	0.0050								
Potassium	ND	0.20								
Selenium	ND	0.0050								
Silver	ND	0.0050								
Sodium	ND	0.20								
Vanadium	ND	0.0050								
Zinc	ND	0.0050								

MBLK Sample ID: MBLKW1-071904				Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 20:54		
Client ID:		Run ID: ICP7500_040722A		SeqNo: 513164		Prep Date: 7/19/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Aluminum	0.015	0.010								

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U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9647 InstrumentID: ICP7500

LCS	Sample ID: MLCSW1-071904	Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 5:53			
Client ID:		Run ID:	ICP7500_040721C	SeqNo:	512508	Prep Date:	7/19/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Arsenic	0.04952	0.0050	0.05	0	99	80-121		0	
Barium	0.05617	0.0050	0.05	0	112	79.8-119		0	
Beryllium	0.0484	0.0020	0.05	0	96.8	78.9-120		0	
Boron	0.5341	0.020	0	-0.007959	0	80-120		0	
Cadmium	0.05664	0.0020	0.05	0	113	79.1-119		0	
Calcium	5.209	0.50	5	0	104	80-121		0	
Chromium	0.04752	0.0050	0.05	0	95	79.3-121		0	
Cobalt	0.04651	0.0050	0.05	0	93	82-121		0	
Copper	0.04617	0.0050	0.05	0	92.3	83-121		0	
Iron	5.078	0.20	5	0	102	80-120		0	
Lead	0.04485	0.0050	0.05	0	89.7	80-118		0	
Magnesium	5.324	0.20	5	0	106	80-120		0	
Manganese	0.04849	0.0050	0.05	0	97	82-119		0	
Nickel	0.04828	0.0050	0.05	0	96.6	85-120		0	
Potassium	5.306	0.20	5	0	106	80-120		0	
Selenium	0.0495	0.0050	0.05	0	99	79.2-118		0	
Silver	0.04313	0.0050	0.05	0	86.3	83-117		0	
Sodium	5.205	0.20	5	0	104	82.4-120		0	
Vanadium	0.04807	0.0050	0.05	0	96.1	82.1-119		0	
Zinc	0.04911	0.0050	0.05	0	98.2	83-118		0	

LCS	Sample ID: MLCSW1-071904	Test Code: SW6020		Units: mg/L		Analysis Date: 07/23/04 14:12			
Client ID:		Run ID:	ICP7500_040723A	SeqNo:	513453	Prep Date:	7/19/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Aluminum	0.05658	0.010	0.05	0	113	79-126		0	
Molybdenum	0.04801	0.0050	0.05	0	96	84.6-115		0	

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R - RPD outside accepted recovery limits

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O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9647 InstrumentID: ICP7500

MS	Sample ID: 0407174-07CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 07/22/04 7:08			
Client ID:		Run ID:	ICP7500_040721C	SeqNo:	512524	Prep Date:	7/19/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.03899	0.010	0.05	-0.002621	83.2	79-126		0		
Arsenic	0.04914	0.0050	0.05	-0.0008387	100	80-121		0		
Barium	0.03947	0.0050	0.05	-0.00421	87.4	79.8-119		0		
Boron	0.5345	0.020	0	0.01216	0	80-120		0		
Cadmium	0.04603	0.0020	0.05	-0.00004586	92.2	79.1-119		0		
Calcium	4.784	0.50	5	0.7668	80.3	80-121		0		
Chromium	0.04477	0.0050	0.05	0.0001007	89.3	79.3-121		0		
Cobalt	0.04393	0.0050	0.05	-0.00001264	87.9	82-121		0		
Copper	0.04391	0.0050	0.05	-0.0001676	88.2	83-121		0		
Iron	4.772	0.20	5	-0.003628	95.5	80-120		0		
Lead	0.04365	0.0050	0.05	-0.00001977	87.3	80-118		0		
Magnesium	4.622	0.20	5	0.2407	87.6	80-120		0		
Manganese	0.04549	0.0050	0.05	-0.00002527	91	82-119		0		
Molybdenum	0.04382	0.0050	0.05	-0.0001675	88	84.6-115		0		
Nickel	0.04573	0.0050	0.05	0.0002155	91	85-120		0		
Potassium	4.813	0.20	5	0.005151	96.2	80-120		0		
Selenium	0.04735	0.0050	0.05	-0.001535	97.8	79.2-118		0		
Silver	0.04778	0.0050	0.05	-0.0003609	96.3	83-117		0		
Sodium	4.498	0.20	5	0.258	84.8	82.4-120		0		
Vanadium	0.04482	0.0050	0.05	0.0001307	89.4	82.1-119		0		
Zinc	0.04722	0.0050	0.05	-0.0003896	95.2	83-118		0		

MS	Sample ID: 0407174-07CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 07/22/04 22:03			
Client ID:		Run ID:	ICP7500_040722A	SeqNo:	513176	Prep Date:	7/19/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05073	0.0020	0.05	0	101	78.9-120		0		

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P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **9647** InstrumentID: **ICP7500**

MSD	Sample ID: 0407174-07CMSD			Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 7:14		
Client ID:		Run ID: ICP7500_040721C		SeqNo:	512527	Prep Date: 7/19/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04197	0.010	0.05	-0.002621	89.2	79-126	0.03899	7.36	15	
Arsenic	0.05041	0.0050	0.05	-0.0008387	102	80-121	0.04914	2.55	15	
Barium	0.04255	0.0050	0.05	-0.00421	93.5	79.8-119	0.03947	7.51	15	
Boron	0.5697	0.020	0	0.01216	0	80-120	0.5345	6.38	15	
Cadmium	0.04762	0.0020	0.05	-0.00004586	95.3	79.1-119	0.04603	3.4	15	
Calcium	4.991	0.50	5	0.7668	84.5	80-121	4.784	4.24	15	
Chromium	0.04702	0.0050	0.05	0.0001007	93.8	79.3-121	0.04477	4.9	15	
Cobalt	0.04624	0.0050	0.05	-0.00001264	92.5	82-121	0.04393	5.12	15	
Copper	0.04593	0.0050	0.05	-0.0001676	92.2	83-121	0.04391	4.5	15	
Iron	4.964	0.20	5	-0.003628	99.4	80-120	4.772	3.94	15	
Lead	0.04527	0.0050	0.05	-0.00001977	90.6	80-118	0.04365	3.64	15	
Magnesium	4.822	0.20	5	0.2407	91.6	80-120	4.622	4.24	15	
Manganese	0.04705	0.0050	0.05	-0.00002527	94.2	82-119	0.04549	3.37	15	
Molybdenum	0.04697	0.0050	0.05	-0.0001675	94.3	84.6-115	0.04382	6.94	15	
Nickel	0.04844	0.0050	0.05	0.0002155	96.4	85-120	0.04573	5.76	15	
Potassium	5.057	0.20	5	0.005151	101	80-120	4.813	4.94	15	
Selenium	0.04997	0.0050	0.05	-0.001535	103	79.2-118	0.04735	5.38	15	
Silver	0.04813	0.0050	0.05	-0.0003609	97	83-117	0.04778	0.73	15	
Sodium	4.731	0.20	5	0.258	89.5	82.4-120	4.498	5.05	15	
Vanadium	0.0472	0.0050	0.05	0.0001307	94.1	82.1-119	0.04482	5.17	15	
Zinc	0.04926	0.0050	0.05	-0.0003896	99.3	83-118	0.04722	4.23	15	

MSD	Sample ID: 0407174-07CMSD			Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 22:09		
Client ID:		Run ID:	ICP7500_040722A	SeqNo:	513177	Prep Date:	7/19/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05073	0.0020	0.05	0	101	78.9-120	0.05073	0	15	

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CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9647 InstrumentID: ICP7500

DUP	Sample ID: 0407174-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 7:02				
Client ID:	Run ID: ICP7500_040721C	SeqNo:	512521	Prep Date: 7/19/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	ND	0.010	0	0	0	0-0	-0.002621	0	25	
Arsenic	ND	0.0050	0	0	0	0-0	-0.0008387	0	25	
Barium	ND	0.0050	0	0	0	0-0	-0.00421	0	25	
Boron	ND	0.020	0	0	0	0-0	0.01216	0	25	
Cadmium	ND	0.0020	0	0	0	0-0	-0.00004586	0	25	
Calcium	0.225	0.50	0	0	0	0-0	0.7668	0	25	J
Chromium	ND	0.0050	0	0	0	0-0	0.0001007	0	25	
Cobalt	ND	0.0050	0	0	0	0-0	-0.00001264	0	25	
Copper	ND	0.0050	0	0	0	0-0	-0.0001676	0	25	
Iron	ND	0.20	0	0	0	0-0	-0.003628	0	25	
Lead	ND	0.0050	-0-	0	0	0-0	-0.00001977	0	25	
Magnesium	0.07947	0.20	0	0	0	0-0	0.2407	0	25	J
Manganese	ND	0.0050	0	0	0	0-0	-0.00002527	0	25	
Molybdenum	ND	0.0050	0	0	0	0-0	-0.0001675	0	25	
Nickel	0.003499	0.0050	0	0	0	0-0	0.0002155	0	25	J
Potassium	ND	0.20	0	0	0	0-0	0.005151	0	25	
Selenium	ND	0.0050	0	0	0	0-0	-0.001535	0	25	
Silver	ND	0.0050	0	0	0	0-0	-0.0003609	0	25	
Sodium	0.08162	0.20	0	0	0	0-0	0.258	0	25	J
Vanadium	ND	0.0050	0	0	0	0-0	0.0001307	0	25	
Zinc	0.002546	0.0050	0	0	0	0-0	-0.0003896	0	25	J

DUP	Sample ID: 0407174-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 21:57				
Client ID:	Run ID: ICP7500_040722A	SeqNo:	513175	Prep Date: 7/19/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	ND	0.0020	0	0	0	0-0	0	0	25	

The following samples were analyzed in this batch: 0407160-01C 0407160-02C 0407160-03C

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CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9741	InstrumentID: Mercury
<hr/>	
MBLK Sample ID: GBLKW2-072604	
<hr/>	
Client ID:	Run ID: MERCURY_040726B SeqNo: 514829 Prep Date: 7/26/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	ND 0.00020
<hr/>	
LCS Sample ID: GLCSW2-072604	Test Code: SW7470 Units: mg/L Analysis Date: 07/26/04 16:26
<hr/>	
Client ID:	Run ID: MERCURY_040726B SeqNo: 514830 Prep Date: 7/26/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00499 0.00020 0.005 0 99.8 83-115 0
<hr/>	
LCSD Sample ID: GLCSDW2-072604	Test Code: SW7470 Units: mg/L Analysis Date: 07/26/04 16:28
<hr/>	
Client ID:	Run ID: MERCURY_040726B SeqNo: 514831 Prep Date: 7/26/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.0048 0.00020 0.005 0 96 83-115 0.00499 3.88 20
<hr/>	
MS Sample ID: 0407160-01CMS	Test Code: SW7470 Units: mg/L Analysis Date: 07/26/04 16:37
<hr/>	
Client ID: MW-53	Run ID: MERCURY_040726B SeqNo: 514834 Prep Date: 7/26/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00515 0.00020 0.005 0.000013 103 83-115 0
<hr/>	
MSD Sample ID: 0407160-01CMSD	Test Code: SW7470 Units: mg/L Analysis Date: 07/26/04 16:38
<hr/>	
Client ID: MW-53	Run ID: MERCURY_040726B SeqNo: 514835 Prep Date: 7/26/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	0.00522 0.00020 0.005 0.000013 104 83-115 0.00515 1.35 20
<hr/>	
DUP Sample ID: 0407160-01CDUP	Test Code: SW7470 Units: mg/L Analysis Date: 07/26/04 16:35
<hr/>	
Client ID: MW-53	Run ID: MERCURY_040726B SeqNo: 514833 Prep Date: 7/26/2004 DF: 1
Analyte	Result PQL SPK Val SPK Ref Value %REC Control Limit RPD Ref Value %RPD RPD Limit Qual
Mercury	ND 0.00020 0 0 0 0-0 0.000013 0 20

The following samples were analyzed in this batch: 0407160-01C 0407160-02C 0407160-03C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9606 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-040715	Test Code: SW8270		Units: µg/L		Analysis Date: 07/16/04 13:16			
Client ID:		Run ID:	SV-3_040715A	SeqNo:	509089	Prep Date:	7/15/2004	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3-Nitroaniline	ND	10							
4-Methylphenol	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	76.59	10	100	0	76.6	39-153	0		
Surr: 2-Fluorobiphenyl	65.5	10	100	0	65.5	40-147	0		
Surr: 2-Fluorophenol	30.28	10	100	0	30.3	21-110	0		
Surr: 4-Terphenyl-d14	69.47	10	100	0	69.5	39-141	0		
Surr: Nitrobenzene-d5	60.01	10	100	0	60	37-140	0		
Surr: Phenol-d6	18.38	10	100	0	18.4	11-100	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9606 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-040715	Test Code: SW8270		Units: µg/L		Analysis Date: 07/16/04 13:43		
Client ID:	Run ID: SV-3_040715A	SeqNo:	509090	Prep Date: 7/15/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
1,2,4-Trichlorobenzene	35.62	10	50	0	71.2	50-115	0	
2,4,5-Trichlorophenol	77.31	10	100	0	77.3	68-128	0	
2,4,6-Trichlorophenol	79.88	10	100	0	79.9	66-125	0	
2-Methylnaphthalene	35.45	10	50	0	70.9	47-122	0	
2-Methylphenol	73.21	10	100	0	73.2	51-115	0	
2-Nitroaniline	42.11	10	50	0	84.2	64-128	0	
2-Nitrophenol	68.45	10	100	0	68.5	60-119	0	
3-Nitroaniline	37.57	10	50	0	75.1	61-118	0	
4-Methylphenol	107.4	10	150	0	71.6	44-115	0	
4-Nitroaniline	39.74	10	50	0	79.5	61-123	0	
4-Nitrophenol	51.42	10	100	0	51.4	17-100	0	
Acenaphthene	40.63	10	50	0	81.3	68-115	0	
Acenaphthylene	40.03	10	50	0	80.1	67-116	0	
Aniline	37.2	10	50	0	74.4	40-130	0	
Anthracene	40.69	10	50	0	81.4	70-129	0	
Benz(a)anthracene	39.15	10	50	0	78.3	55-131	0	
Benzidine	44.45	10	50	0	88.9	10-115	0	
Hexachloroethane	38.44	10	50	0	76.9	46-115	0	
Indeno(1,2,3-cd)pyrene	48.36	10	50	0	96.7	42-123	0	
Isophorone	36.58	10	50	0	73.2	63-117	0	
N-Nitrosodi-n-propylamine	40.23	10	50	0	80.5	67-115	0	
N-Nitrosodimethylamine	24.88	10	50	0	49.8	28-115	0	
N-Nitrosodiphenylamine	43.57	10	50	0	87.1	72-144	0	
Naphthalene	36.34	10	50	0	72.7	52-115	0	
Nitrobenzene	34.29	10	50	0	68.6	65-115	0	
Pentachlorophenol	75.74	10	100	0	75.7	65-123	0	
Phenanthrene	40.55	10	50	0	81.1	69-119	0	
Phenol	43.65	10	100	0	43.6	16-115	0	
Pyrene	39.35	10	50	0	78.7	51-130	0	
Surr: 2,4,6-Tribromophenol	80.76	10	100	0	80.8	39-153	0	
Surr: 2-Fluorobiphenyl	71.21	10	100	0	71.2	40-147	0	
Surr: 2-Fluorophenol	57.65	10	100	0	57.6	21-110	0	
Surr: 4-Terphenyl-d14	72.58	10	100	0	72.6	39-141	0	
Surr: Nitrobenzene-d5	63.47	10	100	0	63.5	37-140	0	
Surr: Phenol-d6	38.09	10	100	0	38.1	11-100	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9606 InstrumentID: SV-3

LCSD Sample ID: SLCSDW1-040715		Test Code: SW8270		Units: µg/L		Analysis Date: 07/16/04 14:09				
Client ID:		Run ID: SV-3_040715A		SeqNo: 509091		Prep Date: 7/15/2004		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	36.92	10	50	0	73.8	50-115	35.62	3.59	30	
2,4,5-Trichlorophenol	77.97	10	100	0	78	68-128	77.31	0.847	30	
2,4,6-Trichlorophenol	81.64	10	100	0	81.6	66-125	79.88	2.17	30	
2-Methylnaphthalene	36.97	10	50	0	73.9	47-122	35.45	4.18	30	
2-Methylphenol	76.29	10	100	0	76.3	51-115	73.21	4.12	30	
2-Nitroaniline	44.54	10	50	0	89.1	64-128	42.11	5.61	30	
2-Nitrophenol	73.16	10	100	0	73.2	60-119	68.45	6.65	30	
3-Nitroaniline	37.58	10	50	0	75.2	61-118	37.57	0.026	30	
4-Methylphenol	111.4	10	150	0	74.3	44-115	107.4	3.63	30	
4-Nitroaniline	41.4	10	50	0	82.8	61-123	39.74	4.09	30	
4-Nitrophenol	55.58	10	100	0	55.6	17-100	51.42	7.78	30	
Acenaphthene	41.57	10	50	0	83.1	68-115	40.63	2.3	30	
Acenaphthylene	40.89	10	50	0	81.8	67-116	40.03	2.11	30	
Aniline	38.81	10	50	0	77.6	40-130	37.2	4.22	30	
Anthracene	43.11	10	50	0	86.2	70-129	40.69	5.79	30	
Benz(a)anthracene	41.78	10	50	0	83.6	55-131	39.15	6.49	30	
Benzidine	48.72	10	50	0	97.4	10-115	44.45	9.15	30	
Hexachloroethane	40.86	10	50	0	81.7	46-115	38.44	6.1	30	
Indeno(1,2,3-cd)pyrene	51.65	10	50	0	103	42-123	48.36	6.59	30	
Isophorone	38.42	10	50	0	76.8	63-117	36.58	4.9	30	
N-Nitrosodi-n-propylamine	42.59	10	50	0	85.2	67-115	40.23	5.71	30	
N-Nitrosodimethylamine	26.58	10	50	0	53.2	28-115	24.88	6.61	30	
N-Nitrosodiphenylamine	46.77	10	50	0	93.5	72-144	43.57	7.07	30	
Naphthalene	38.24	10	50	0	76.5	52-115	36.34	5.07	30	
Nitrobenzene	32.59	10	50	0	65.2	65-115	34.29	5.08	30	
Pentachlorophenol	83.2	10	100	0	83.2	65-123	75.74	9.39	30	
Phenanthrene	41.99	10	50	0	84	69-119	40.55	3.5	30	
Phenol	45.21	10	100	0	45.2	16-115	43.65	3.51	30	
Pyrene	41.75	10	50	0	83.5	51-130	39.35	5.9	30	
Surr: 2,4,6-Tribromophenol	85.32	10	100	0	85.3	39-153	80.76	5.49	30	
Surr: 2-Fluorobiphenyl	71.72	10	100	0	71.7	40-147	71.21	0.721	30	
Surr: 2-Fluorophenol	60.54	10	100	0	60.5	21-110	57.65	4.9	30	
Surr: 4-Terphenyl-d14	74.6	10	100	0	74.6	39-141	72.58	2.75	30	
Surr: Nitrobenzene-d5	67.15	10	100	0	67.1	37-140	63.47	5.63	30	
Surr: Phenol-d6	40.09	10	100	0	40.1	11-100	38.09	5.13	30	

The following samples were analyzed in this batch:

0407160-01E 0407160-02E 0407160-03E

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21773 InstrumentID: VOA2

MLBK	Sample ID: VBLKW-0716	Test Code: SW8260		Units: µg/L		Analysis Date: 07/16/04 11:36			
Client ID:		Run ID:	VOA2_040716A	SeqNo:	508933	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0							
1,1,2,2-Tetrachloroethane	ND	5.0							
1,1,2-Trichloroethane	ND	5.0							
1,1-Dichloroethane	ND	5.0							
1,1-Dichloroethene	ND	5.0							
1,2-Dichloroethane	ND	5.0							
2-Butanone	ND	10							
2-Chloroethyl vinyl ether	ND	10							
2-Hexanone	ND	10							
4-Methyl-2-pentanone	ND	10							
Acetone	ND	10							
Benzene	ND	5.0							
Bromodichloromethane	ND	5.0							
Bromoform	ND	5.0							
Bromomethane	ND	5.0							
Carbon disulfide	ND	10							
Carbon tetrachloride	ND	5.0							
Chlorobenzene	ND	5.0							
Chloroethane	ND	5.0							
Chloroform	ND	5.0							
Chloromethane	ND	5.0							
cis-1,3-Dichloropropene	ND	5.0							
Dibromochloromethane	ND	5.0							
Ethylbenzene	ND	5.0							
m,p-Xylene	ND	10							
Methylene chloride	ND	10							
Styrene	ND	5.0							
Tetrachloroethene	ND	5.0							
Toluene	ND	5.0							
trans-1,3-Dichloropropene	ND	5.0							
Trichloroethene	ND	5.0							
Vinyl acetate	ND	10							
Vinyl chloride	ND	2.0							
Xylenes, Total	ND	15							
Surr: 1,2-Dichloroethane-d4	46.18	5.0	50	0	92.4	71-126	0		
Surr: 4-Bromofluorobenzene	43.45	5.0	50	0	86.9	74-125	0		
Surr: Dibromofluoromethane	46.91	5.0	50	0	93.8	73-126	0		
Surr: Toluene-d8	46.03	5.0	50	0	92.1	75-125	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21773 InstrumentID: VOA2

LCS	Sample ID: VLCSW-0716	Test Code: SW8260		Units: µg/L		Analysis Date: 07/16/04 10:45			
Client ID:		Run ID:	VOA2_040716A	SeqNo:	508932	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	48.33	5.0	50	0	96.7	75.2-120	0		
1,1,2,2-Tetrachloroethane	46.74	5.0	50	0	93.5	72.4-121	0		
1,1,2-Trichloroethane	48.19	5.0	50	0	96.4	80-120	0		
1,1-Dichloroethane	46.2	5.0	50	0	92.4	76.9-120	0		
1,1-Dichloroethene	48.47	5.0	50	0	96.9	72.6-123	0		
1,2-Dichloroethane	47.47	5.0	50	0	94.9	80-120	0		
2-Butanone	96.07	10	100	0	96.1	69-131	0		
2-Chloroethyl vinyl ether	98.91	10	100	0	98.9	60-135	0		
2-Hexanone	107.8	10	100	0	108	55.6-126	0		
4-Methyl-2-pentanone	101.1	10	100	0	101	67.4-121	0		
Acetone	115.3	10	100	0	115	64.4-140	0		
Benzene	46.87	5.0	50	0	93.7	80-120	0		
Bromodichloromethane	47.98	5.0	50	0	96	80-120	0		
Bromoform	49.06	5.0	50	0	98.1	77.9-121	0		
Bromomethane	49.31	5.0	50	0	98.6	63.3-137	0		
Carbon disulfide	91.44	10	100	0	91.4	74.1-123	0		
Carbon tetrachloride	48.17	5.0	50	0	96.3	74.7-120	0		
Chlorobenzene	47.23	5.0	50	0	94.5	80-120	0		
Chloroethane	47.18	5.0	50	0	94.4	74.7-126	0		
Chloroform	46.62	5.0	50	0	93.2	80-120	0		
Chloromethane	46.05	5.0	50	0	92.1	64.5-132	0		
cis-1,3-Dichloropropene	48.64	5.0	50	0	97.3	80-120	0		
Dibromochloromethane	49.23	5.0	50	0	98.5	80-120	0		
Ethylbenzene	49.12	5.0	50	0	98.2	80-120	0		
m,p-Xylene	97.84	10	100	0	97.8	80-120	0		
Methylene chloride	43.19	10	50	0	86.4	76.2-120	0		
Styrene	49.32	5.0	50	0	98.6	80-120	0		
Tetrachloroethene	50.79	5.0	50	0	102	68.5-130	0		
Toluene	48.1	5.0	50	0	96.2	80-120	0		
trans-1,3-Dichloropropene	49.04	5.0	50	0	98.1	80-120	0		
Trichloroethene	47.79	5.0	50	0	95.6	78.9-120	0		
Vinyl acetate	104.7	10	100	0	105	62.4-133	0		
Vinyl chloride	49.85	2.0	50	0	99.7	72.7-128	0		
Xylenes, Total	146.7	15	150	0	97.8	80-120	0		
Surr: 1,2-Dichloroethane-d4	42.42	5.0	50	0	84.8	71-126	0		
Surr: 4-Bromofluorobenzene	45.17	5.0	50	0	90.3	74-125	0		
Surr: Dibromofluoromethane	42.37	5.0	50	0	84.7	73-126	0		
Surr: Toluene-d8	45.54	5.0	50	0	91.1	75-125	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21773 InstrumentID: VOA2

MS	Sample ID: 0407107-21AMS			Test Code: SW8260	Units: µg/L		Analysis Date: 07/16/04 14:08			
Client ID:		Run ID:	VOA2_040716A	SeqNo:	508941	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.13	5.0	50	0	94.3	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	54.54	5.0	50	0	109	72.4-121	0	0		
1,1,2-Trichloroethane	54.37	5.0	50	0	109	80-120	0	0		
1,1-Dichloroethane	44.81	5.0	50	0	89.6	76.9-120	0	0		
1,1-Dichloroethene	46.25	5.0	50	0	92.5	72.6-123	0	0		
1,2-Dichloroethane	53.47	5.0	50	0	107	80-120	0	0		
2-Butanone	114.4	10	100	0	114	69-131	0	0		
2-Chloroethyl vinyl ether	18.07	10	100	0	18.1	60-135	0	0		S
2-Hexanone	119.8	10	100	0	120	55.6-126	0	0		
4-Methyl-2-pentanone	118.2	10	100	0	118	67.4-121	0	0		
Acetone	109.1	10	100	0	109	64.4-140	0	0		
Benzene	49.8	5.0	50	0	99.6	80-120	0	0		
Bromodichloromethane	52.05	5.0	50	0	104	80-120	0	0		
Bromoform	54.64	5.0	50	0	109	77.9-121	0	0		
Bromomethane	44.65	5.0	50	0	89.3	63.3-137	0	0		
Carbon disulfide	89.58	10	100	0	89.6	74.1-123	0	0		
Carbon tetrachloride	45.24	5.0	50	0	90.5	74.7-120	0	0		
Chlorobenzene	49.04	5.0	50	0	98.1	80-120	0	0		
Chloroethane	47.27	5.0	50	0	94.5	74.7-126	0	0		
Chloroform	50.5	5.0	50	0	101	80-120	0	0		
Chloromethane	46.07	5.0	50	0	92.1	64.5-132	0	0		
cis-1,3-Dichloropropene	53.51	5.0	50	0	107	80-120	0	0		
Dibromochloromethane	53.41	5.0	50	0	107	80-120	0	0		
Ethylbenzene	49.13	5.0	50	0	98.3	80-120	0	0		
m,p-Xylene	98.43	10	100	0	98.4	80-120	0	0		
Methylene chloride	46.97	10	50	0	93.9	76.2-120	0	0		
Styrene	51.92	5.0	50	0	104	80-120	0	0		
Tetrachloroethene	47.41	5.0	50	0	94.8	68.5-130	0	0		
Toluene	48.77	5.0	50	0	97.5	80-120	0	0		
trans-1,3-Dichloropropene	55.31	5.0	50	0	111	80-120	0	0		
Trichloroethene	47.77	5.0	50	0	95.5	78.9-120	0	0		
Vinyl acetate	126.1	10	100	0	126	62.4-133	0	0		
Vinyl chloride	46.9	2.0	50	0	93.8	72.7-128	0	0		
Xylenes, Total	148.8	15	150	0	99.2	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	44.39	5.0	50	0	88.8	71-126	0	0		
Surr: 4-Bromofluorobenzene	45.89	5.0	50	0	91.8	74-125	0	0		
Surr: Dibromofluoromethane	44.31	5.0	50	0	88.6	73-126	0	0		
Surr: Toluene-d8	45.99	5.0	50	0	92	75-125	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21773 InstrumentID: VOA2

MSD	Sample ID: 0407107-21AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/16/04 14:34		
Client ID:	Run ID: VOA2_040716A	SeqNo:	508943	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	46.55	5.0	50	0	93.1	75.2-120	47.13	1.23 20
1,1,2,2-Tetrachloroethane	54.57	5.0	50	0	109	72.4-121	54.54	0.042 20
1,1,2-Trichloroethane	53.94	5.0	50	0	108	80-120	54.37	0.798 20
1,1-Dichloroethane	40.69	5.0	50	0	81.4	76.9-120	44.81	9.63 20
1,1-Dichloroethene	46.34	5.0	50	0	92.7	72.6-123	46.25	0.198 20
1,2-Dichloroethane	53.85	5.0	50	0	108	80-120	53.47	0.704 20
2-Butanone	113.9	10	100	0	114	69-131	114.4	0.441 20
2-Chloroethyl vinyl ether	19.78	10	100	0	19.8	60-135	18.07	9.07 20 S
2-Hexanone	121.9	10	100	0	122	55.6-126	119.8	1.7 20
4-Methyl-2-pentanone	120.5	10	100	0	120	67.4-121	118.2	1.93 20
Acetone	107.6	10	100	0	108	64.4-140	109.1	1.41 20
Benzene	50.31	5.0	50	0	101	80-120	49.8	1.03 20
Bromodichloromethane	52.91	5.0	50	0	106	80-120	52.05	1.63 20
Bromoform	55.82	5.0	50	0	112	77.9-121	54.64	2.14 20
Bromomethane	48.32	5.0	50	0	96.6	63.3-137	44.65	7.9 20
Carbon disulfide	84.57	10	100	0	84.6	74.1-123	89.58	5.76 20
Carbon tetrachloride	44.95	5.0	50	0	89.9	74.7-120	45.24	0.646 20
Chlorobenzene	48.6	5.0	50	0	97.2	80-120	49.04	0.904 20
Chloroethane	46.97	5.0	50	0	93.9	74.7-126	47.27	0.652 20
Chloroform	49	5.0	50	0	98	80-120	50.5	3.01 20
Chloromethane	46.38	5.0	50	0	92.8	64.5-132	46.07	0.675 20
cis-1,3-Dichloropropene	53.55	5.0	50	0	107	80-120	53.51	0.0726 20
Dibromochloromethane	53.28	5.0	50	0	107	80-120	53.41	0.247 20
Ethylbenzene	47.41	5.0	50	0	94.8	80-120	49.13	3.56 20
m,p-Xylene	95.25	10	100	0	95.3	80-120	98.43	3.28 20
Methylene chloride	45.65	10	50	0	91.3	76.2-120	46.97	2.84 20
Styrene	50.81	5.0	50	0	102	80-120	51.92	2.16 20
Tetrachloroethene	46.09	5.0	50	0	92.2	68.5-130	47.41	2.81 20
Toluene	48.26	5.0	50	0	96.5	80-120	48.77	1.04 20
trans-1,3-Dichloropropene	55.8	5.0	50	0	112	80-120	55.31	0.882 20
Trichloroethene	48.38	5.0	50	0	96.8	78.9-120	47.77	1.25 20
Vinyl acetate	123.9	10	100	0	124	62.4-133	126.1	1.78 20
Vinyl chloride	47.71	2.0	50	0	95.4	72.7-128	46.9	1.73 20
Xylenes, Total	144.6	15	150	0	96.4	80-120	148.8	2.86 20
Surr: 1,2-Dichloroethane-d4	44.75	5.0	50	0	89.5	71-126	44.39	0.795 20
Surr: 4-Bromofluorobenzene	46.51	5.0	50	0	93	74-125	45.89	1.34 20
Surr: Dibromofluoromethane	43.86	5.0	50	0	87.7	73-126	44.31	1.02 20
Surr: Toluene-d8	46.32	5.0	50	0	92.6	75-125	45.99	0.7 20

The following samples were analyzed in this batch:

0407160-01A

0407160-02A

0407160-03A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21757 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-071504		Test Code: E300		Units: mg/L		Analysis Date: 07/15/04 16:52		
Client ID:		Run ID: IC201_040715A		SeqNo: 508591		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.87	0.10	5	0	97.4	80-120		0		

LCS		Sample ID: WLCSW1-071504		Test Code: E300		Units: mg/L		Analysis Date: 07/16/04 2:22		
Client ID:		Run ID: IC201_040715A		SeqNo: 508607		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.51	0.50	10	0	95.1	80-120		0		
Fluoride	1.89	0.10	2	0	94.5	80-120		0		
Sulfate	9.42	1.0	10	0	94.2	80-120		0		
Nitrate/Nitrite (as N)	3.91	0.10	0	0	0	80-120		0		
Surr: Dichloroacetic acid (surr)	5.33	0.10	5	0	107	80-120		0		

LCSD		Sample ID: WLCSDW1-07150		Test Code: E300		Units: mg/L		Analysis Date: 07/15/04 17:49		
Client ID:		Run ID: IC201_040715A		SeqNo: 508592		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.46	0.50	10	0	94.6	80-120	9.51	0.527	20	
Fluoride	1.93	0.10	2	0	96.5	80-120	1.89	2.09	20	
Sulfate	9.4	1.0	10	0	94	80-120	9.42	0.213	20	
Nitrate/Nitrite (as N)	3.91	0.10	0	0	0	80-120	3.91	0	20	
Surr: Dichloroacetic acid (surr)	5.17	0.10	5	0	103	80-120	5.33	3.05	20	

MS		Sample ID: 0407160-01BMS		Test Code: E300		Units: mg/L		Analysis Date: 07/15/04 19:15		
Client ID:		Run ID: IC201_040715A		SeqNo: 508595		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	74.72	0.50	10	65	97.2	75-125	0			EO
Fluoride	3.01	0.10	2	1.17	92	75-125	0			
Sulfate	1416	1.0	10	1429	-129	75-125	0			SEO
Nitrate/Nitrite (as N)	3.85	0.10	4	0.23	90.5	75-125	0			
Surr: Dichloroacetic acid (surr)	5.15	0.10	5	0	103	80-120	0			

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S - Spike Recovery outside accepted recovery limits

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J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21757 InstrumentID: IC201

MSD Sample ID: 0407160-01BMSD Test Code: E300 Units: mg/L Analysis Date: 07/15/04 19:43

Client ID: MW-53 Run ID: IC201_040715A SeqNo: 508596 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	74.67	0.50	10	65	96.7	75-125	74.72	0.0669	20	EO
Fluoride	2.97	0.10	2	1.17	90	75-125	3.01	1.34	20	
Sulfate	1415	1.0	10	1429	-144	75-125	1416	0.111	20	SEO
Nitrate/Nitrite (as N)	3.76	0.10	4	0.23	88.2	75-125	3.85	2.37	20	
Surr: Dichloroacetic acid (surr)	5.05	0.10	5	0	101	80-120	5.15	1.96	20	

DUP Sample ID: 0407160-01BDUP Test Code: E300 Units: mg/L Analysis Date: 07/15/04 23:03

Client ID: MW-53 Run ID: IC201_040715A SeqNo: 508601 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	151	50	0	0	0	0-0	152	0.66	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	952	100	0	0	0	0-0	943	0.95	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	530	10	500	0	106	80-120	525	0.948	20	

DUP Sample ID: 0407160-01BDUP Test Code: E300 Units: mg/L Analysis Date: 07/15/04 18:46

Client ID: MW-53 Run ID: IC201_040715A SeqNo: 516274 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	65.14	0.50	0	0	0	0-0	65	0.215	20	E
Fluoride	1.16	0.10	0	0	0	0-0	1.17	0.858	20	
Sulfate	1434	1.0	0	0	0	0-0	1429	0.375	20	E
Nitrate/Nitrite (as N)	0.23	0.10	0	0	0	0-0	0.23	0	20	
Surr: Dichloroacetic acid (surr)	5.22	0.10	5	0	104	80-120	5.31	1.71	20	

The following samples were analyzed in this batch:

0407160-01B 0407160-02B 0407160-03B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21788		InstrumentID: UV-2101PC					
MBLK	Sample ID: WBLKW1-071704		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00
Client ID:		Run ID:	UV-2101PC_040717A	SeqNo:	509554	Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value
Cyanide	ND	0.020					RPD Limit
LCS	Sample ID: WLCSW1-071704		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00
Client ID:		Run ID:	UV-2101PC_040717A	SeqNo:	509555	Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value
Cyanide	0.1941	0.020	0.2	0	97	80-120	0
MS	Sample ID: 0407129-03DMS		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00
Client ID:		Run ID:	UV-2101PC_040717A	SeqNo:	509573	Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value
Cyanide	0.1963	0.020	0.2	-0.002	99.1	75-125	0
MSD	Sample ID: 0407129-03DMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00
Client ID:		Run ID:	UV-2101PC_040717A	SeqNo:	509574	Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value
Cyanide	0.1936	0.020	0.2	-0.002	97.8	75-125	0.1963 1.38 25
DUP	Sample ID: 0407129-03DDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00
Client ID:		Run ID:	UV-2101PC_040717A	SeqNo:	509572	Prep Date:	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value
Cyanide	ND	0.020	0	0	0	0-0	-0.002 0 20

The following samples were analyzed in this batch:

0407160-01D 0407160-02D 0407160-03D

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407160
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21916 InstrumentID: WetChem

MBLK Sample ID: WBLKW1-072204 Test Code: E310.1 Units: mg/L Analysis Date: 07/22/04 0:00

Client ID: Run ID: WETCHEM_040722A SeqNo: 512756 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: WLCSW1-072204 Test Code: E310.1 Units: mg/L Analysis Date: 07/22/04 0:00

Client ID: Run ID: WETCHEM_040722A SeqNo: 512757 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	1	0	0-0	0	0		
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0	0		

DUP Sample ID: 0407119-02DDUP Test Code: E310.1 Units: mg/L Analysis Date: 07/22/04 0:00

Client ID: Run ID: WETCHEM_040722A SeqNo: 512775 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	340.1	5.0	0	0	0	0-0	340.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	340.1	5.0	0	0	0	0-0	340.1	0	20	

DUP Sample ID: 0407217-04BDUP Test Code: E310.1 Units: mg/L Analysis Date: 07/22/04 0:00

Client ID: Run ID: WETCHEM_040722A SeqNo: 512776 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	470.1	5.0	0	0	0	0-0	470.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	470.1	5.0	0	0	0	0-0	470.1	0	20	

The following samples were analyzed in this batch:

0407160-01B	0407160-02B	0407160-03B
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ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

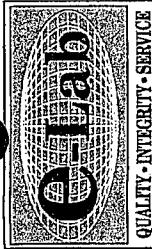
R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Page _____ of _____

Customer Information		e-Lab Project Manager:		e-Lab Work Order #: <u>A00110</u>												
Purchase Order		Project Information		Parameter/Method Request for Analysis												
Work Order		Project Name: <u>Navajo Refining Company</u>		Volatile BTEX/MME 8260												
Company Name		Project Number		Total Metals WQCC + Cations 60207000												
Send Report To		Bill To Company		Semivolatiles Select 8270												
Address		Invoice Attn		D Chloride, Fluoride, Sulfate												
City/State/Zip		P.O. Box 159		E Alkalinity												
Phone		509 East Main		F Cyanide												
Fax		Atascia, New Mexico 88211		G NCL / TEC												
e-Mail Address		Phone (505) 748-3311		H												
e-Mail Address		Fax (505) 746-5421		I												
e-Mail Address		e-Mail Address		J												
No.	Sample Description	Date	Time	Matrix	Pres.	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-53	7/14/04	1045	L	9	8									X	
2	MW-54A	7/14/04	1110	L	9	8										
3	MW-55	7/14/04	1330	L	9	8										
4																
5																
6																
7																
8																
9																
10																
Sampler Please Print & Sign		Shipment Method		Required Turnaround Time (Check Box)		Results Due Date:										
Relinquished by:		Fed Ex		<input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 wk Days <input type="checkbox"/> 2 wk Days <input type="checkbox"/> 24 Hour		<input type="checkbox"/> Other _____										
Relinquished by:		Date: <u>7/14/04</u> Time: <u>10:15</u>		Received by (Laboratory): <u>John S.</u>		Notes: <u>10 Day TAT Standard</u>										
Logged by (Laboratory):		Date: <u>7/15/04</u> Time: <u>08:00</u>		Checked by (Laboratory): <u>John S.</u>		QC Package (Check One Box Below)										
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ SO ₃ 6-NaHSO ₃ 7-OH Eis 8-4°C				<input checked="" type="checkbox"/> Lab I Std QC/Raw Data <input type="checkbox"/> Lab II Std QC/Raw Data <input type="checkbox"/> Lab III Std QC/Raw Data <input type="checkbox"/> Lab IV Std QC/Raw Data <input type="checkbox"/> Other _____												

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.

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e-Lab Analytical, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 7/15/2004 8:50:00 AM

Work Order Number 0407160

Received by: FSM

Checklist completed by RJM

Signature

7/15/04

Date

Reviewed by JL

Initials

7/15/04

Date

Matrix: W

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>2.2c</u>	<u>002</u>	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.



e-Lab Analytical, Inc.

10450 Standifff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

July 27, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0407179**

Dear Jeff Byrd,

e-Lab Analytical, Inc. received 3 samples on 7/16/2004 9:10:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab Analytical, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Analytical, Inc. The total number of pages in this report is 32.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0407179

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0407179-01	NCL-49	Water		7/15/2004 10:00	7/16/2004 09:10	<input type="checkbox"/>
0407179-02	NCL-32	Water		7/15/2004 10:15	7/16/2004 09:10	<input type="checkbox"/>
0407179-03	NCL-44	Water		7/15/2004 10:45	7/16/2004 09:10	<input type="checkbox"/>

e-Lab Analytical, Inc.**Date:** *July 27, 2004*

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0407179

Case Narrative

Batch 9655 Semivolatile MS/MSD/RPD was an unrelated sample.

Batch R21864 Volatile MS/MSD was an unrelated sample.

e-Lab Analytical, Inc.**Date:** July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-01

Client Sample ID: NCL-49
Collection Date: 7/15/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	7/26/2004 4:54:23 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0256	0.0100		mg/L	1	7/22/2004 8:58:00 AM
Arsenic	ND	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Barium	0.0119	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Beryllium	ND	0.00200		mg/L	1	7/22/2004 8:58:00 AM
Boron	0.247	0.0200		mg/L	1	7/22/2004 8:58:00 AM
Cadmium	ND	0.00100		mg/L	1	7/22/2004 8:58:00 AM
Calcium	451	10.0		mg/L	20	7/22/2004 10:43:00 PM
Chromium	ND	0.00200		mg/L	1	7/22/2004 8:58:00 AM
Cobalt	ND	0.00200		mg/L	1	7/22/2004 8:58:00 AM
Copper	ND	0.00200		mg/L	1	7/22/2004 8:58:00 AM
Iron	ND	0.200		mg/L	1	7/22/2004 8:58:00 AM
Lead	ND	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Magnesium	196	4.00		mg/L	20	7/22/2004 10:43:00 PM
Manganese	ND	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Molybdenum	ND	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Nickel	ND	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Potassium	0.670	0.200		mg/L	1	7/22/2004 8:58:00 AM
Selenium	0.00806	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Silver	ND	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Sodium	110	4.00		mg/L	20	7/22/2004 10:43:00 PM
Vanadium	0.00941	0.00500		mg/L	1	7/22/2004 8:58:00 AM
Zinc	ND	0.00500		mg/L	1	7/22/2004 8:58:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/21/2004 7:05:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/21/2004 7:05:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
2-Methylphenol	ND	10		µg/L	1	7/21/2004 7:05:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:05:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/21/2004 7:05:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:05:00 PM
4-Methylphenol	ND	10		µg/L	1	7/21/2004 7:05:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:05:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Acenaphthene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Acenaphthylene	ND	10		µg/L	1	7/21/2004 7:05:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-01

Client Sample ID: NCL-49
Collection Date: 7/15/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Anthracene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Benzidine	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Hexachloroethane	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Isophorone	ND	10		µg/L	1	7/21/2004 7:05:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/21/2004 7:05:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/21/2004 7:05:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Naphthalene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Nitrobenzene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Phenanthrene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Phenol	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Pyrene	ND	10		µg/L	1	7/21/2004 7:05:00 PM
Surr: 2,4,6-Tribromophenol	104	39-153		%REC	1	7/21/2004 7:05:00 PM
Surr: 2-Fluorobiphenyl	99.8	40-147		%REC	1	7/21/2004 7:05:00 PM
Surr: 2-Fluorophenol	41.1	21-110		%REC	1	7/21/2004 7:05:00 PM
Surr: 4-Terphenyl-d14	99.4	39-141		%REC	1	7/21/2004 7:05:00 PM
Surr: Nitrobenzene-d5	93.0	37-140		%REC	1	7/21/2004 7:05:00 PM
Surr: Phenol-d6	23.2	11-100		%REC	1	7/21/2004 7:05:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	7/21/2004 1:21:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	7/21/2004 1:21:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	7/21/2004 1:21:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	7/21/2004 1:21:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	7/21/2004 1:21:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	7/21/2004 1:21:00 AM
2-Butanone	ND	10	µg/L	7/21/2004 1:21:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	7/21/2004 1:21:00 AM
2-Hexanone	ND	10	µg/L	7/21/2004 1:21:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	7/21/2004 1:21:00 AM
Acetone	ND	10	µg/L	7/21/2004 1:21:00 AM
Benzene	ND	5.0	µg/L	7/21/2004 1:21:00 AM
Bromodichloromethane	ND	5.0	µg/L	7/21/2004 1:21:00 AM
Bromoform	ND	5.0	µg/L	7/21/2004 1:21:00 AM
Bromomethane	ND	5.0	µg/L	7/21/2004 1:21:00 AM
Carbon disulfide	ND	10	µg/L	7/21/2004 1:21:00 AM
Carbon tetrachloride	ND	5.0	µg/L	7/21/2004 1:21:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-01

Client Sample ID: NCL-49
Collection Date: 7/15/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Chloroethane	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Chloroform	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Chloromethane	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Ethylbenzene	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
m,p-Xylene	ND	10		µg/L	1	7/21/2004 1:21:00 AM
Methylene chloride	ND	10		µg/L	1	7/21/2004 1:21:00 AM
Styrene	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Toluene	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Trichloroethene	ND	5.0		µg/L	1	7/21/2004 1:21:00 AM
Vinyl acetate	ND	10		µg/L	1	7/21/2004 1:21:00 AM
Vinyl chloride	ND	2.0		µg/L	1	7/21/2004 1:21:00 AM
Xylenes, Total	ND	15		µg/L	1	7/21/2004 1:21:00 AM
Surr: 1,2-Dichloroethane-d4	120	71-126		%REC	1	7/21/2004 1:21:00 AM
Surr: 4-Bromofluorobenzene	93.8	74-125		%REC	1	7/21/2004 1:21:00 AM
Surr: Dibromofluoromethane	110	73-126		%REC	1	7/21/2004 1:21:00 AM
Surr: Toluene-d8	97.0	75-125		%REC	1	7/21/2004 1:21:00 AM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	174	5.00	mg/L	10
Fluoride	0.860	0.100	mg/L	1
Sulfate	1,460	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	97.8	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	107	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	117	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	220	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	220	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-02

Client Sample ID: NCL-32
Collection Date: 7/15/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	7/26/2004 4:55:57 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	7/22/2004 9:03:00 AM
Arsenic	ND	0.00500		mg/L	1	7/22/2004 9:03:00 AM
Barium	0.0146	0.00500		mg/L	1	7/22/2004 9:03:00 AM
Beryllium	ND	0.00200		mg/L	1	7/22/2004 9:03:00 AM
Boron	0.280	0.0200		mg/L	1	7/22/2004 9:03:00 AM
Cadmium	ND	0.00100		mg/L	1	7/22/2004 9:03:00 AM
Calcium	532	10.0		mg/L	20	7/22/2004 10:49:00 PM
Chromium	ND	0.00200		mg/L	1	7/22/2004 9:03:00 AM
Cobalt	0.00264	0.00200		mg/L	1	7/22/2004 9:03:00 AM
Copper	ND	0.00200		mg/L	1	7/22/2004 9:03:00 AM
Iron	ND	0.200		mg/L	1	7/22/2004 9:03:00 AM
Lead	ND	0.00500		mg/L	1	7/22/2004 9:03:00 AM
Magnesium	172	4.00		mg/L	20	7/22/2004 10:49:00 PM
Manganese	1.01	0.100		mg/L	20	7/22/2004 10:49:00 PM
Molybdenum	0.00902	0.00500		mg/L	1	7/22/2004 9:03:00 AM
Nickel	0.00596	0.00500		mg/L	1	7/22/2004 9:03:00 AM
Potassium	3.30	0.200		mg/L	1	7/22/2004 9:03:00 AM
Selenium	ND	0.00500		mg/L	1	7/22/2004 9:03:00 AM
Silver	ND	0.00500		mg/L	1	7/22/2004 9:03:00 AM
Sodium	84.7	4.00		mg/L	20	7/22/2004 10:49:00 PM
Vanadium	0.0102	0.00500		mg/L	1	7/22/2004 9:03:00 AM
Zinc	ND	0.00500		mg/L	1	7/22/2004 9:03:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/21/2004 7:30:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/21/2004 7:30:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
2-Methylphenol	ND	10		µg/L	1	7/21/2004 7:30:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:30:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/21/2004 7:30:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:30:00 PM
4-Methylphenol	ND	10		µg/L	1	7/21/2004 7:30:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:30:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Acenaphthene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Acenaphthylene	ND	10		µg/L	1	7/21/2004 7:30:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-02

Client Sample ID: NCL-32
Collection Date: 7/15/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Anthracene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Benzidine	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Hexachloroethane	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Isophorone	ND	10		µg/L	1	7/21/2004 7:30:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/21/2004 7:30:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/21/2004 7:30:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Naphthalene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Nitrobenzene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Phenanthrene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Phenol	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Pyrene	ND	10		µg/L	1	7/21/2004 7:30:00 PM
Surr: 2,4,6-Tribromophenol	105	39-153		%REC	1	7/21/2004 7:30:00 PM
Surr: 2-Fluorobiphenyl	96.7	40-147		%REC	1	7/21/2004 7:30:00 PM
Surr: 2-Fluorophenol	38.5	21-110		%REC	1	7/21/2004 7:30:00 PM
Surr: 4-Terphenyl-d14	96.3	39-141		%REC	1	7/21/2004 7:30:00 PM
Surr: Nitrobenzene-d5	91.1	37-140		%REC	1	7/21/2004 7:30:00 PM
Surr: Phenol-d6	23.8	11-100		%REC	1	7/21/2004 7:30:00 PM

VOLATILES BY GC/MS

		SW8260	Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L
1,1,2-Trichloroethane	ND	5.0	µg/L
1,1-Dichloroethane	ND	5.0	µg/L
1,1-Dichloroethene	ND	5.0	µg/L
1,2-Dichloroethane	ND	5.0	µg/L
2-Butanone	ND	10	µg/L
2-Chloroethyl vinyl ether	ND	10	µg/L
2-Hexanone	ND	10	µg/L
4-Methyl-2-pentanone	ND	10	µg/L
Acetone	ND	10	µg/L
Benzene	ND	5.0	µg/L
Bromodichloromethane	ND	5.0	µg/L
Bromoform	ND	5.0	µg/L
Bromomethane	ND	5.0	µg/L
Carbon disulfide	ND	10	µg/L
Carbon tetrachloride	ND	5.0	µg/L

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-02

Client Sample ID: NCL-32
Collection Date: 7/15/2004 10:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Chloroethane	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Chloroform	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Chloromethane	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Ethylbenzene	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
m,p-Xylene	ND	10		µg/L	1	7/21/2004 1:48:00 AM
Methylene chloride	ND	10		µg/L	1	7/21/2004 1:48:00 AM
Styrene	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Toluene	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Trichloroethene	ND	5.0		µg/L	1	7/21/2004 1:48:00 AM
Vinyl acetate	ND	10		µg/L	1	7/21/2004 1:48:00 AM
Vinyl chloride	ND	2.0		µg/L	1	7/21/2004 1:48:00 AM
Xylenes, Total	ND	15		µg/L	1	7/21/2004 1:48:00 AM
Surr: 1,2-Dichloroethane-d4	118	71-126		%REC	1	7/21/2004 1:48:00 AM
Surr: 4-Bromofluorobenzene	97.1	74-125		%REC	1	7/21/2004 1:48:00 AM
Surr: Dibromofluoromethane	111	73-126		%REC	1	7/21/2004 1:48:00 AM
Surr: Toluene-d8	94.2	75-125		%REC	1	7/21/2004 1:48:00 AM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	188	5.00		mg/L	10	7/17/2004 2:08:00 AM
Fluoride	1.31	0.100		mg/L	1	7/17/2004 1:40:00 AM
Sulfate	1,070	100		mg/L	100	7/17/2004 2:37:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	7/17/2004 1:40:00 AM
Surr: Dichloroacetic acid (surr)	94.8	80-120		%REC	1	7/17/2004 1:40:00 AM
Surr: Dichloroacetic acid (surr)	115	80-120		%REC	10	7/17/2004 2:08:00 AM
Surr: Dichloroacetic acid (surr)	109	80-120		%REC	100	7/17/2004 2:37:00 AM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO3)	330	5.00		mg/L	1	7/22/2004
Alkalinity, Carbonate (As CaCO3)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Hydroxide (As CaCO3)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Total (As CaCO3)	330	5.00		mg/L	1	7/22/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	7/17/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-03

Client Sample ID: NCL-44
Collection Date: 7/15/2004 10:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	7/26/2004 4:57:31 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	7/22/2004 9:09:00 AM
Arsenic	0.0207	0.00500		mg/L	1	7/22/2004 9:09:00 AM
Barium	0.0263	0.00500		mg/L	1	7/22/2004 9:09:00 AM
Beryllium	ND	0.00200		mg/L	1	7/22/2004 9:09:00 AM
Boron	0.323	0.0200		mg/L	1	7/22/2004 9:09:00 AM
Cadmium	ND	0.00100		mg/L	1	7/22/2004 9:09:00 AM
Calcium	314	10.0		mg/L	20	7/22/2004 10:55:00 PM
Chromium	ND	0.00200		mg/L	1	7/22/2004 9:09:00 AM
Cobalt	0.00353	0.00200		mg/L	1	7/22/2004 9:09:00 AM
Copper	ND	0.00200		mg/L	1	7/22/2004 9:09:00 AM
Iron	0.900	0.200		mg/L	1	7/22/2004 9:09:00 AM
Lead	ND	0.00500		mg/L	1	7/22/2004 9:09:00 AM
Magnesium	125	4.00		mg/L	20	7/22/2004 10:55:00 PM
Manganese	0.723	0.100		mg/L	20	7/22/2004 10:55:00 PM
Molybdenum	0.0146	0.00500		mg/L	1	7/22/2004 9:09:00 AM
Nickel	ND	0.00500		mg/L	1	7/22/2004 9:09:00 AM
Potassium	2.15	0.200		mg/L	1	7/22/2004 9:09:00 AM
Selenium	ND	0.00500		mg/L	1	7/22/2004 9:09:00 AM
Silver	ND	0.00500		mg/L	1	7/22/2004 9:09:00 AM
Sodium	71.9	4.00		mg/L	20	7/22/2004 10:55:00 PM
Vanadium	ND	0.00500		mg/L	1	7/22/2004 9:09:00 AM
Zinc	ND	0.00500		mg/L	1	7/22/2004 9:09:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	7/21/2004 7:54:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	7/21/2004 7:54:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
2-Methylphenol	ND	10		µg/L	1	7/21/2004 7:54:00 PM
2-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:54:00 PM
2-Nitrophenol	ND	10		µg/L	1	7/21/2004 7:54:00 PM
3-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:54:00 PM
4-Methylphenol	ND	10		µg/L	1	7/21/2004 7:54:00 PM
4-Nitroaniline	ND	10		µg/L	1	7/21/2004 7:54:00 PM
4-Nitrophenol	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Acenaphthene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Acenaphthylene	ND	10		µg/L	1	7/21/2004 7:54:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-03

Client Sample ID: NCL-44
Collection Date: 7/15/2004 10:45:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Anthracene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Benz(a)anthracene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Benzidine	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Hexachloroethane	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Isophorone	ND	10		µg/L	1	7/21/2004 7:54:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	7/21/2004 7:54:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	7/21/2004 7:54:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Naphthalene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Nitrobenzene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Pentachlorophenol	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Phenanthrene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Phenol	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Pyrene	ND	10		µg/L	1	7/21/2004 7:54:00 PM
Surr: 2,4,6-Tribromophenol	115	39-153		%REC	1	7/21/2004 7:54:00 PM
Surr: 2-Fluorobiphenyl	103	40-147		%REC	1	7/21/2004 7:54:00 PM
Surr: 2-Fluorophenol	42.2	21-110		%REC	1	7/21/2004 7:54:00 PM
Surr: 4-Terphenyl-d14	97.5	39-141		%REC	1	7/21/2004 7:54:00 PM
Surr: Nitrobenzene-d5	98.5	37-140		%REC	1	7/21/2004 7:54:00 PM
Surr: Phenol-d6	25.5	11-100		%REC	1	7/21/2004 7:54:00 PM

VOLATILES BY GC/MS

SW8260

Analyst: PC

1,1,1-Trichloroethane	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
2-Butanone	ND	10	µg/L	1	7/21/2004 2:15:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	1	7/21/2004 2:15:00 AM
2-Hexanone	ND	10	µg/L	1	7/21/2004 2:15:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	1	7/21/2004 2:15:00 AM
Acetone	ND	10	µg/L	1	7/21/2004 2:15:00 AM
Benzene	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
Bromodichloromethane	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
Bromoform	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
Bromomethane	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM
Carbon disulfide	ND	10	µg/L	1	7/21/2004 2:15:00 AM
Carbon tetrachloride	ND	5.0	µg/L	1	7/21/2004 2:15:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: July 27, 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL
Lab ID: 0407179-03

Client Sample ID: NCL-44
Collection Date: 7/15/2004 10:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Chloroethane	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Chloroform	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Chloromethane	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Ethylbenzene	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
m,p-Xylene	ND	10		µg/L	1	7/21/2004 2:15:00 AM
Methylene chloride	ND	10		µg/L	1	7/21/2004 2:15:00 AM
Styrene	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Toluene	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Trichloroethene	ND	5.0		µg/L	1	7/21/2004 2:15:00 AM
Vinyl acetate	ND	10		µg/L	1	7/21/2004 2:15:00 AM
Vinyl chloride	ND	2.0		µg/L	1	7/21/2004 2:15:00 AM
Xylenes, Total	ND	15		µg/L	1	7/21/2004 2:15:00 AM
Surr: 1,2-Dichloroethane-d4	115	71-126		%REC	1	7/21/2004 2:15:00 AM
Surr: 4-Bromofluorobenzene	91.3	74-125		%REC	1	7/21/2004 2:15:00 AM
Surr: Dibromofluoromethane	108	73-126		%REC	1	7/21/2004 2:15:00 AM
Surr: Toluene-d8	95.1	75-125		%REC	1	7/21/2004 2:15:00 AM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	207	5.00		mg/L	10	7/17/2004 4:59:00 AM
Fluoride	1.65	0.100		mg/L	1	7/17/2004 4:31:00 AM
Sulfate	449	10.0		mg/L	10	7/17/2004 4:59:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	7/17/2004 4:31:00 AM
Surr: Dichloroacetic acid (surr)	101	80-120		%REC	1	7/17/2004 4:31:00 AM
Surr: Dichloroacetic acid (surr)	109	80-120		%REC	10	7/17/2004 4:59:00 AM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	530	5.00		mg/L	1	7/22/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	7/22/2004
Alkalinity, Total (As CaCO ₃)	530	5.00		mg/L	1	7/22/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	7/17/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab Analytical, Inc.

Date: Jul 27 2004

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9647 InstrumentID: ICP7500

MBLK Sample ID: MBLKW1-071904		Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 5:48			
Client ID: Run ID: ICP7500_040721C		SeqNo: 512507		Prep Date: 7/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
Arsenic	ND	0.0050							
Barium	0.01107	0.0050							
Beryllium	ND	0.0020							
Boron	ND	0.020							
Cadmium	ND	0.0020							
Calcium	0.2675	0.50							J
Chromium	ND	0.0050							
Cobalt	ND	0.0050							
Copper	ND	0.0050							
Iron	0.03845	0.20							J
Lead	ND	0.0050							
Magnesium	ND	0.20							
Manganese	ND	0.0050							
Molybdenum	ND	0.0050							
Nickel	ND	0.0050							
Potassium	ND	0.20							
Selenium	ND	0.0050							
Silver	ND	0.0050							
Sodium	ND	0.20							
Vanadium	ND	0.0050							
Zinc	ND	0.0050							

MBLK Sample ID: MBLKW1-071904		Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 20:54			
Client ID: Run ID: ICP7500_040722A		SeqNo: 513164		Prep Date: 7/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
Aluminum	0.015	0.010							

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9647 InstrumentID: ICP7500

LCS	Sample ID: MLCSW1-071904	Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 5:53		
Client ID:		Run ID:	ICP7500_040721C	SeqNo:	512508	Prep Date:	7/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
Arsenic	0.04952	0.0050	0.05	0	99	80-121	0	
Barium	0.05617	0.0050	0.05	0	112	79.8-119	0	
Beryllium	0.0484	0.0020	0.05	0	96.8	78.9-120	0	
Boron	0.5341	0.020	0	-0.007959	0	80-120	0	
Cadmium	0.05664	0.0020	0.05	0	113	79.1-119	0	
Calcium	5.209	0.50	5	0	104	80-121	0	
Chromium	0.04752	0.0050	0.05	0	95	79.3-121	0	
Cobalt	0.04651	0.0050	0.05	0	93	82-121	0	
Copper	0.04617	0.0050	0.05	0	92.3	83-121	0	
Iron	5.078	0.20	5	0	102	80-120	0	
Lead	0.04485	0.0050	0.05	0	89.7	80-118	0	
Magnesium	5.324	0.20	5	0	106	80-120	0	
Manganese	0.04849	0.0050	0.05	0	97	82-119	0	
Nickel	0.04828	0.0050	0.05	0	96.6	85-120	0	
Potassium	5.306	0.20	5	0	106	80-120	0	
Selenium	0.0495	0.0050	0.05	0	99	79.2-118	0	
Silver	0.04313	0.0050	0.05	0	86.3	83-117	0	
Sodium	5.205	0.20	5	0	104	82.4-120	0	
Vanadium	0.04807	0.0050	0.05	0	96.1	82.1-119	0	
Zinc	0.04911	0.0050	0.05	0	98.2	83-118	0	

LCS	Sample ID: MLCSW1-071904	Test Code: SW6020		Units: mg/L		Analysis Date: 07/23/04 14:12		
Client ID:		Run ID:	ICP7500_040723A	SeqNo:	513453	Prep Date:	7/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
Aluminum	0.05658	0.010	0.05	0	113	79-126	0	
Molybdenum	0.04801	0.0050	0.05	0	96	84.6-115	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9647 InstrumentID: ICP7500

MS	Sample ID: 0407174-07CMS		Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 7:08			
Client ID:			Run ID:	ICP7500_040721C	SeqNo:	512524	Prep Date:	7/19/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.03899	0.010	0.05	-0.002621	83.2	79-126		0		
Arsenic	0.04914	0.0050	0.05	-0.0008387	100	80-121		0		
Barium	0.03947	0.0050	0.05	-0.00421	87.4	79.8-119		0		
Boron	0.5345	0.020	0	0.01216	0	80-120		0		
Cadmium	0.04603	0.0020	0.05	-0.00004586	92.2	79.1-119		0		
Calcium	4.784	0.50	5	0.7668	80.3	80-121		0		
Chromium	0.04477	0.0050	0.05	0.0001007	89.3	79.3-121		0		
Cobalt	0.04393	0.0050	0.05	-0.00001264	87.9	82-121		0		
Copper	0.04391	0.0050	0.05	-0.0001676	88.2	83-121		0		
Iron	4.772	0.20	5	-0.003628	95.5	80-120		0		
Lead	0.04365	0.0050	0.05	-0.00001977	87.3	80-118		0		
Magnesium	4.622	0.20	5	0.2407	87.6	80-120		0		
Manganese	0.04549	0.0050	0.05	-0.00002527	91	82-119		0		
Molybdenum	0.04382	0.0050	0.05	-0.0001675	88	84.6-115		0		
Nickel	0.04573	0.0050	0.05	0.0002155	91	85-120		0		
Potassium	4.813	0.20	5	0.005151	96.2	80-120		0		
Selenium	0.04735	0.0050	0.05	-0.001535	97.8	79.2-118		0		
Silver	0.04778	0.0050	0.05	-0.0003609	96.3	83-117		0		
Sodium	4.498	0.20	5	0.258	84.8	82.4-120		0		
Vanadium	0.04482	0.0050	0.05	0.0001307	89.4	82.1-119		0		
Zinc	0.04722	0.0050	0.05	-0.0003896	95.2	83-118		0		

MS	Sample ID: 0407174-07CMS		Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 22:03			
Client ID:			Run ID:	ICP7500_040722A	SeqNo:	513176	Prep Date:	7/19/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05073	0.0020	0.05	0	101	78.9-120		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **9647** InstrumentID: **ICP7500**

MSD	Sample ID: 0407174-07CMSD	Test Code: SW6020			Units: mg/L		Analysis Date: 07/22/04 7:14			
Client ID:		Run ID:	ICP7500_040721C	SeqNo:	512527	Prep Date:	7/19/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.04197	0.010	0.05	-0.002621	89.2	79-126	0.03899	7.36	15	
Arsenic	0.05041	0.0050	0.05	-0.0008387	102	80-121	0.04914	2.55	15	
Barium	0.04255	0.0050	0.05	-0.00421	93.5	79.8-119	0.03947	7.51	15	
Boron	0.5697	0.020	0	0.01216	0	80-120	0.5345	6.38	15	
Cadmium	0.04762	0.0020	0.05	-0.00004586	95.3	79.1-119	0.04603	3.4	15	
Calcium	4.991	0.50	5	0.7668	84.5	80-121	4.784	4.24	15	
Chromium	0.04702	0.0050	0.05	0.0001007	93.8	79.3-121	0.04477	4.9	15	
Cobalt	0.04624	0.0050	0.05	-0.00001264	92.5	82-121	0.04393	5.12	15	
Copper	0.04593	0.0050	0.05	-0.0001676	92.2	83-121	0.04391	4.5	15	
Iron	4.964	0.20	5	-0.003628	99.4	80-120	4.772	3.94	15	
Lead	0.04527	0.0050	0.05	-0.00001977	90.6	80-118	0.04365	3.64	15	
Magnesium	4.822	0.20	5	0.2407	91.6	80-120	4.622	4.24	15	
Manganese	0.04705	0.0050	0.05	-0.00002527	94.2	82-119	0.04549	3.37	15	
Molybdenum	0.04697	0.0050	0.05	-0.0001675	94.3	84.6-115	0.04382	6.94	15	
Nickel	0.04844	0.0050	0.05	0.0002155	96.4	85-120	0.04573	5.76	15	
Potassium	5.057	0.20	5	0.005151	101	80-120	4.813	4.94	15	
Selenium	0.04997	0.0050	0.05	-0.001535	103	79.2-118	0.04735	5.38	15	
Silver	0.04813	0.0050	0.05	-0.0003609	97	83-117	0.04778	0.73	15	
Sodium	4.731	0.20	5	0.258	89.5	82.4-120	4.498	5.05	15	
Vanadium	0.0472	0.0050	0.05	0.0001307	94.1	82.1-119	0.04482	5.17	15	
Zinc	0.04926	0.0050	0.05	-0.0003896	99.3	83-118	0.04722	4.23	15	

MSD	Sample ID: 0407174-07CMSD	Test Code: SW6020			Units: mg/L		Analysis Date: 07/22/04 22:09			
Client ID:		Run ID:	ICP7500_040722A	SeqNo:	513177	Prep Date:	7/19/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05073	0.0020	0.05	0	101	78.9-120	0.05073	0	15	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9647 InstrumentID: ICP7500

DUP	Sample ID: 0407174-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 7:02		
Client ID:		Run ID:	ICP7500_040721C	SeqNo:	512521	Prep Date:	7/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
Aluminum	ND	0.010	0	0	0	0-0	-0.002621	0 25
Arsenic	ND	0.0050	0	0	0	0-0	-0.0008387	0 25
Barium	ND	0.0050	0	0	0	0-0	-0.00421	0 25
Boron	ND	0.020	0	0	0	0-0	0.01216	0 25
Cadmium	ND	0.0020	0	0	0	0-0	-0.00004586	0 25
Calcium	0.225	0.50	0	0	0	0-0	0.7668	0 25 J
Chromium	ND	0.0050	0	0	0	0-0	0.0001007	0 25
Cobalt	ND	0.0050	0	0	0	0-0	-0.00001264	0 25
Copper	ND	0.0050	0	0	0	0-0	-0.0001676	0 25
Iron	ND	0.20	0	0	0	0-0	-0.003628	0 25
Lead	ND	0.0050	0	0	0	0-0	-0.00001977	0 25
Magnesium	0.07947	0.20	0	0	0	0-0	0.2407	0 25 J
Manganese	ND	0.0050	0	0	0	0-0	-0.00002527	0 25
Molybdenum	ND	0.0050	0	0	0	0-0	-0.0001675	0 25
Nickel	0.003499	0.0050	0	0	0	0-0	0.0002155	0 25 J
Potassium	ND	0.20	0	0	0	0-0	0.005151	0 25
Selenium	ND	0.0050	0	0	0	0-0	-0.001535	0 25
Silver	ND	0.0050	0	0	0	0-0	-0.0003609	0 25
Sodium	0.08162	0.20	0	0	0	0-0	0.258	0 25 J
Vanadium	ND	0.0050	0	0	0	0-0	0.0001307	0 25
Zinc	0.002546	0.0050	0	0	0	0-0	-0.0003896	0 25 J

DUP	Sample ID: 0407174-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 07/22/04 21:57		
Client ID:		Run ID:	ICP7500_040722A	SeqNo:	513175	Prep Date:	7/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
Beryllium	ND	0.0020	0	0	0	0-0	0	0 25

The following samples were analyzed in this batch: 0407179-01C 0407179-02C 0407179-03C

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9741 InstrumentID: **Mercury**

MBLK		Sample ID: GBLKW2-072604		Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:25		
Client ID:		Run ID: MERCURY_040726B		SeqNo: 514829		Prep Date: 7/26/2004		DF: 1		
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD
Mercury		ND		0.00020						
LCS		Sample ID: GLCSW2-072604		Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:26		
Client ID:		Run ID: MERCURY_040726B		SeqNo: 514830		Prep Date: 7/26/2004		DF: 1		
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD
Mercury		0.00499		0.00020	0.005	0	99.8	83-115	0	
LCSD		Sample ID: GLCSDW2-072604		Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:28		
Client ID:		Run ID: MERCURY_040726B		SeqNo: 514831		Prep Date: 7/26/2004		DF: 1		
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD
Mercury		0.0048		0.00020	0.005	0	96	83-115	0.00499	3.88
MS		Sample ID: 0407160-01CMS		Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:37		
Client ID:		Run ID: MERCURY_040726B		SeqNo: 514834		Prep Date: 7/26/2004		DF: 1		
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD
Mercury		0.00515		0.00020	0.005	0.000013	103	83-115	0	
MSD		Sample ID: 0407160-01CMDS		Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:38		
Client ID:		Run ID: MERCURY_040726B		SeqNo: 514835		Prep Date: 7/26/2004		DF: 1		
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD
Mercury		0.00522		0.00020	0.005	0.000013	104	83-115	0.00515	1.35
DUP		Sample ID: 0407160-01CDUP		Test Code: SW7470		Units: mg/L		Analysis Date: 07/26/04 16:35		
Client ID:		Run ID: MERCURY_040726B		SeqNo: 514833		Prep Date: 7/26/2004		DF: 1		
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD
Mercury		ND		0.00020	0	0	0	0-0	0.000013	0

The following samples were analyzed in this batch:

0407179-01C	0407179-02C	0407179-03C
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ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **9655** InstrumentID: **SV-3**

MBLK Sample ID: SBLKW1-040719		Test Code: SW8270		Units: µg/L		Analysis Date: 07/20/04 19:58			
Client ID: Run ID: SV-3_040720A		SeqNo: 511693		Prep Date: 7/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3-Nitroaniline	ND	10							
4-Methylphenol	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	106.4	10	100	0	106	39-153	0		
Surr: 2-Fluorobiphenyl	96.67	10	100	0	96.7	40-147	0		
Surr: 2-Fluorophenol	40.03	10	100	0	40	21-110	0		
Surr: 4-Terphenyl-d14	96	10	100	0	96	39-141	0		
Surr: Nitrobenzene-d5	96.78	10	100	0	96.8	37-140	0		
Surr: Phenol-d6	25.08	10	100	0	25.1	11-100	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9655 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-040719	Test Code: SW8270		Units: µg/L		Analysis Date: 07/20/04 20:23			
Client ID:		Run ID: SV-3_040720A	SeqNo: 511694	Prep Date: 7/19/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,2,4-Trichlorobenzene	50.52	10	50	0	101	50-115	0		
2,4,5-Trichlorophenol	111.5	10	100	0	112	68-128	0		
2,4,6-Trichlorophenol	107.6	10	100	0	108	66-125	0		
2-Methylnaphthalene	46.56	10	50	0	93.1	47-122	0		
2-Methylphenol	94.13	10	100	0	94.1	51-115	0		
2-Nitroaniline	57.06	10	50	0	114	64-128	0		
2-Nitrophenol	100.6	10	100	0	101	60-119	0		
3-Nitroaniline	56.31	10	50	0	113	61-118	0		
4-Methylphenol	137.4	10	150	0	91.6	44-115	0		
4-Nitroaniline	55.49	10	50	0	111	61-123	0		
4-Nitrophenol	71.17	10	100	0	71.2	17-100	0		
Acenaphthene	53.78	10	50	0	108	68-115	0		
Acenaphthylene	53.55	10	50	0	107	67-116	0		
Aniline	55.14	10	50	0	110	40-130	0		
Anthracene	56.8	10	50	0	114	70-129	0		
Benz(a)anthracene	56.08	10	50	0	112	55-131	0		
Benzidine	49.68	10	50	0	99.4	10-115	0		
Hexachloroethane	51.67	10	50	0	103	46-115	0		
Indeno(1,2,3-cd)pyrene	60.46	10	50	0	121	42-123	0		
Isophorone	53.9	10	50	0	108	63-117	0		
N-Nitrosodi-n-propylamine	52.45	10	50	0	105	67-115	0		
N-Nitrosodimethylamine	34.75	10	50	0	69.5	28-115	0		
N-Nitrosodiphenylamine	57.73	10	50	0	115	72-144	0		
Naphthalene	50.83	10	50	0	102	52-115	0		
Nitrobenzene	51.7	10	50	0	103	65-115	0		
Pentachlorophenol	102.1	10	100	0	102	65-123	0		
Phenanthrene	55.16	10	50	0	110	69-119	0		
Phenol	56.22	10	100	0	56.2	16-115	0		
Pyrene	52.45	10	50	0	105	51-130	0		
Surr: 2,4,6-Tribromophenol	107.9	10	100	0	108	39-153	0		
Surr: 2-Fluorobiphenyl	99.63	10	100	0	99.6	40-147	0		
Surr: 2-Fluorophenol	78.73	10	100	0	78.7	21-110	0		
Surr: 4-Terphenyl-d14	101.5	10	100	0	102	39-141	0		
Surr: Nitrobenzene-d5	98.05	10	100	0	98.1	37-140	0		
Surr: Phenol-d6	53.54	10	100	0	53.5	11-100	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9655 InstrumentID: SV-3

MS	Sample ID: 0407192-07DMS	Test Code: SW8270		Units: µg/L		Analysis Date: 07/20/04 21:38		
Client ID:		Run ID:	SV-3_040720A	SeqNo:	511695	Prep Date:	7/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
1,2,4-Trichlorobenzene	54.69	23	56.75	0	96.4	50-115	0	
2,4,5-Trichlorophenol	123.1	23	113.5	0	108	68-128	0	
2,4,6-Trichlorophenol	117.2	23	113.5	0	103	66-125	0	
2-Methylnaphthalene	52.41	23	56.75	0	92.3	47-122	0	
2-Methylphenol	104.9	23	113.5	0	92.4	51-115	0	
2-Nitroaniline	61.84	23	56.75	0	109	64-128	0	
2-Nitrophenol	109.5	23	113.5	0	96.5	60-119	0	
3-Nitroaniline	65.6	23	56.75	0	116	61-118	0	
4-Methylphenol	152.2	23	340.5	0	44.7	44-115	0	
4-Nitroaniline	63.46	23	56.75	0	112	61-123	0	
4-Nitrophenol	68.79	23	113.5	0	60.6	17-100	0	
Acenaphthene	60.07	23	56.75	0	106	68-115	0	
Acenaphthylene	60.95	23	56.75	0	107	67-116	0	
Aniline	56.42	23	56.75	0	99.4	40-130	0	
Anthracene	66.16	23	56.75	0	117	70-129	0	
Benz(a)anthracene	60.4	23	56.75	0	106	55-131	0	
Benzidine	16.77	23	56.75	0	29.5	10-115	0	J
Hexachloroethane	51.69	23	56.75	0	91.1	46-115	0	
Indeno(1,2,3-cd)pyrene	56.13	23	56.75	0	98.9	42-123	0	
Isophorone	58.38	23	56.75	0	103	63-117	0	
N-Nitrosodi-n-propylamine	58.22	23	56.75	0	103	67-115	0	
N-Nitrosodimethylamine	43.39	23	56.75	0	76.5	28-115	0	
N-Nitrosodiphenylamine	66.67	23	56.75	0	117	72-144	0	
Naphthalene	55.18	23	56.75	0	97.2	52-115	0	
Nitrobenzene	59.87	23	56.75	0	105	65-115	0	
Pentachlorophenol	114.4	23	113.5	0	101	65-123	0	
Phenanthrene	64.51	23	56.75	0	114	69-119	0	
Phenol	64.78	23	113.5	0	57.1	16-115	0	
Pyrene	59.23	23	56.75	0	104	51-130	0	
Surr: 2,4,6-Tribromophenol	125.5	23	113.5	0	111	39-153	0	
Surr: 2-Fluorobiphenyl	114	23	113.5	0	100	40-147	0	
Surr: 2-Fluorophenol	81.94	23	113.5	0	72.2	21-110	0	
Surr: 4-Terphenyl-d14	116.8	23	113.5	0	103	39-141	0	
Surr: Nitrobenzene-d5	107.4	23	113.5	0	94.6	37-140	0	
Surr: Phenol-d6	62.21	23	113.5	0	54.8	11-100	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 9655 InstrumentID: SV-3

MSD	Sample ID: 0407192-07DMSD	Test Code: SW8270		Units: µg/L		Analysis Date: 07/20/04 22:02				
Client ID:		Run ID:	SV-3_040720A	SeqNo:	511696	Prep Date:	7/19/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	40.04	22	55.5	0	72.2	50-115	54.69	30.9	30	R
2,4,5-Trichlorophenol	96.43	22	111	0	86.9	68-128	123.1	24.3	30	
2,4,6-Trichlorophenol	94.33	22	111	0	85	66-125	117.2	21.6	30	
2-Methylnaphthalene	38.49	22	55.5	0	69.3	47-122	52.41	30.6	30	R
2-Methylphenol	83.21	22	111	0	75	51-115	104.9	23	30	
2-Nitroaniline	49.15	22	55.5	0	88.6	64-128	61.84	22.9	30	
2-Nitrophenol	81.04	22	111	0	73	60-119	109.5	29.9	30	
3-Nitroaniline	56.28	22	55.5	0	101	61-118	65.6	15.3	30	
4-Methylphenol	124.6	22	333	0	37.4	44-115	152.2	19.9	30	S
4-Nitroaniline	53.48	22	55.5	0	96.4	61-123	63.46	17.1	30	
4-Nitrophenol	55.7	22	111	0	50.2	17-100	68.79	21	30	
Acenaphthene	47.17	22	55.5	0	85	68-115	60.07	24.1	30	
Acenaphthylene	46.6	22	55.5	0	84	67-116	60.95	26.7	30	
Aniline	30.74	22	55.5	0	55.4	40-130	56.42	58.9	30	R
Anthracene	50.97	22	55.5	0	91.8	70-129	66.16	25.9	30	
Benz(a)anthracene	45.89	22	55.5	0	82.7	55-131	60.4	27.3	30	
Benzidine	25.08	22	55.5	0	45.2	10-115	16.77	39.7	30	R
Hexachloroethane	37.9	22	55.5	0	68.3	46-115	51.69	30.8	30	R
Indeno(1,2,3-cd)pyrene	41.48	22	55.5	0	74.7	42-123	56.13	30	30	R
Isophorone	44.34	22	55.5	0	79.9	63-117	58.38	27.3	30	
N-Nitrosodi-n-propylamine	44.83	22	55.5	0	80.8	67-115	58.22	26	30	
N-Nitrosodimethylamine	38	22	55.5	0	68.5	28-115	43.39	13.2	30	
N-Nitrosodiphenylamine	53.31	22	55.5	0	96.1	72-144	66.67	22.3	30	
Naphthalene	41.02	22	55.5	0	73.9	52-115	55.18	29.4	30	
Nitrobenzene	44.78	22	55.5	0	80.7	65-115	59.87	28.8	30	
Pentachlorophenol	88.04	22	111	0	79.3	65-123	114.4	26.1	30	
Phenanthrene	49.83	22	55.5	0	89.8	69-119	64.51	25.7	30	
Phenol	52.95	22	111	0	47.7	16-115	64.78	20.1	30	
Pyrene	45.39	22	55.5	0	81.8	51-130	59.23	26.5	30	
Surr: 2,4,6-Tribromophenol	98.54	22	111	0	88.8	39-153	125.5	24.1	30	
Surr: 2-Fluorobiphenyl	88.98	22	111	0	80.2	40-147	114	24.6	30	
Surr: 2-Fluorophenol	64.87	22	111	0	58.4	21-110	81.94	23.3	30	
Surr: 4-Terphenyl-d14	96.57	22	111	0	87	39-141	116.8	18.9	30	
Surr: Nitrobenzene-d5	79.37	22	111	0	71.5	37-140	107.4	30	30	R
Surr: Phenol-d6	49.3	22	111	0	44.4	11-100	62.21	23.1	30	

The following samples were analyzed in this batch:

0407179-01E

0407179-02E

0407179-03E

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R21864** InstrumentID: **VOA1**

MBLK Sample ID: VBLKW-0720		Test Code: SW8260		Units: µg/L		Analysis Date: 07/20/04 19:54			
Client ID:	Run ID:	SeqNo:	511405	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0							
1,1,2,2-Tetrachloroethane	ND	5.0							
1,1,2-Trichloroethane	ND	5.0							
1,1-Dichloroethane	ND	5.0							
1,1-Dichloroethene	ND	5.0							
1,2-Dichloroethane	ND	5.0							
2-Butanone	ND	10							
2-Chloroethyl vinyl ether	ND	10							
2-Hexanone	ND	10							
4-Methyl-2-pentanone	ND	10							
Acetone	ND	10							
Benzene	ND	5.0							
Bromodichloromethane	ND	5.0							
Bromoform	ND	5.0							
Bromomethane	ND	5.0							
Carbon disulfide	ND	10							
Carbon tetrachloride	ND	5.0							
Chlorobenzene	ND	5.0							
Chloroethane	ND	5.0							
Chloroform	ND	5.0							
Chloromethane	ND	5.0							
cis-1,3-Dichloropropene	ND	5.0							
Dibromochloromethane	ND	5.0							
Ethylbenzene	ND	5.0							
m,p-Xylene	ND	10							
Methylene chloride	ND	10							
Styrene	ND	5.0							
Tetrachloroethene	ND	5.0							
Toluene	ND	5.0							
trans-1,3-Dichloropropene	ND	5.0							
Trichloroethene	ND	5.0							
Vinyl acetate	ND	10							
Vinyl chloride	ND	2.0							
Xylenes, Total	ND	15							
Surr: 1,2-Dichloroethane-d4	52.55	5.0	50	0	105	71-126	0		
Surr: 4-Bromofluorobenzene	49.16	5.0	50	0	98.3	74-125	0		
Surr: Dibromofluoromethane	50.4	5.0	50	0	101	73-126	0		
Surr: Toluene-d8	49.04	5.0	50	0	98.1	75-125	0		

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R - RPD outside accepted recovery limits

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O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21864 InstrumentID: VOA1

LCS	Sample ID: VLCSW-0720	Test Code: SW8260		Units: µg/L		Analysis Date: 07/20/04 19:27		
Client ID:		Run ID:	VOA1_040720A	SeqNo:	511404	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	51.74	5.0	50	0	103	75.2-120	0	
1,1,2,2-Tetrachloroethane	51.31	5.0	50	0	103	72.4-121	0	
1,1,2-Trichloroethane	52.84	5.0	50	0	106	80-120	0	
1,1-Dichloroethane	51.59	5.0	50	0	103	76.9-120	0	
1,1-Dichloroethene	52.93	5.0	50	0	106	72.6-123	0	
1,2-Dichloroethane	49.6	5.0	50	0	99.2	80-120	0	
2-Butanone	102	10	100	0	102	69-131	0	
2-Chloroethyl vinyl ether	101.1	10	100	0	101	60-135	0	
2-Hexanone	100.7	10	100	0	101	55.6-126	0	
4-Methyl-2-pentanone	103.1	10	100	0	103	67.4-121	0	
Acetone	100.1	10	100	0	100	64.4-140	0	
Benzene	50.41	5.0	50	0	101	80-120	0	
Bromodichloromethane	50.34	5.0	50	0	101	80-120	0	
Bromoform	49.45	5.0	50	0	98.9	77.9-121	0	
Bromomethane	58.28	5.0	50	0	117	63.3-137	0	
Carbon disulfide	105	10	100	0	105	74.1-123	0	
Carbon tetrachloride	47.9	5.0	50	0	95.8	74.7-120	0	
Chlorobenzene	48.99	5.0	50	0	98	80-120	0	
Chloroethane	55.81	5.0	50	0	112	74.7-126	0	
Chloroform	52.78	5.0	50	0	106	80-120	0	
Chloromethane	57.62	5.0	50	0	115	64.5-132	0	
cis-1,3-Dichloropropene	50.78	5.0	50	0	102	80-120	0	
Dibromochloromethane	51.97	5.0	50	0	104	80-120	0	
Ethylbenzene	49.16	5.0	50	0	98.3	80-120	0	
m,p-Xylene	98.82	10	100	0	98.8	80-120	0	
Methylene chloride	50.39	10	50	0	101	76.2-120	0	
Styrene	50.04	5.0	50	0	100	80-120	0	
Tetrachloroethene	48.36	5.0	50	0	96.7	68.5-130	0	
Toluene	51.11	5.0	50	0	102	80-120	0	
trans-1,3-Dichloropropene	51.29	5.0	50	0	103	80-120	0	
Trichloroethene	50.45	5.0	50	0	101	78.9-120	0	
Vinyl acetate	114.1	10	100	0	114	62.4-133	0	
Vinyl chloride	57.15	2.0	50	0	114	72.7-128	0	
Xylenes, Total	149.7	15	150	0	99.8	80-120	0	
Surr: 1,2-Dichloroethane-d4	50.24	5.0	50	0	100	71-126	0	
Surr: 4-Bromofluorobenzene	49.3	5.0	50	0	98.6	74-125	0	
Surr: Dibromofluoromethane	48.5	5.0	50	0	97	73-126	0	
Surr: Toluene-d8	49.33	5.0	50	0	98.7	75-125	0	

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21864 InstrumentID: VOA1

MS	Sample ID: 0407206-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 07/20/04 21:43			
Client ID:	Run ID: VOA1_040720A	SeqNo:	511409	Prep Date:	DF:	500			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	24580	2,500	25000	0	98.3	75.2-120	0	0	
1,1,2,2-Tetrachloroethane	26570	2,500	25000	0	106	72.4-121	0	0	
1,1,2-Trichloroethane	26270	2,500	25000	0	105	80-120	0	0	
1,1-Dichloroethane	26990	2,500	25000	0	108	76.9-120	0	0	
1,1-Dichloroethene	25550	2,500	25000	0	102	72.6-123	0	0	
1,2-Dichloroethane	25750	2,500	25000	0	103	80-120	0	0	
2-Butanone	45790	5,000	50000	0	91.6	69-131	0	0	
2-Chloroethyl vinyl ether	51080	5,000	50000	0	102	60-135	0	0	
2-Hexanone	43470	5,000	50000	0	86.9	55.6-126	0	0	
4-Methyl-2-pentanone	45680	5,000	50000	0	91.4	67.4-121	0	0	
Acetone	51970	5,000	50000	0	104	64.4-140	0	0	
Benzene	41390	2,500	25000	16450	99.8	80-120	0	0	
Bromodichloromethane	25280	2,500	25000	0	101	80-120	0	0	
Bromoform	25140	2,500	25000	0	101	77.9-121	0	0	
Bromomethane	32720	2,500	25000	0	131	63.3-137	0	0	
Carbon disulfide	54600	5,000	50000	0	109	74.1-123	0	0	
Carbon tetrachloride	43130	2,500	25000	22910	80.9	74.7-120	0	0	
Chlorobenzene	94470	2,500	25000	68460	104	80-120	0	0	
Chloroethane	32640	2,500	25000	0	131	74.7-126	0	0	S
Chloroform	40540	2,500	25000	17270	93.1	80-120	0	0	
Chloromethane	34110	2,500	25000	0	136	64.5-132	0	0	S
cis-1,3-Dichloropropene	24940	2,500	25000	0	99.8	80-120	0	0	
Dibromochloromethane	26200	2,500	25000	0	105	80-120	0	0	
Ethylbenzene	23070	2,500	25000	0	92.3	80-120	0	0	
m,p-Xylene	46010	5,000	50000	0	92	80-120	0	0	
Methylene chloride	30380	5,000	25000	0	122	76.2-120	0	0	S
Styrene	24600	2,500	25000	0	98.4	80-120	0	0	
Tetrachloroethene	21120	2,500	25000	0	84.5	68.5-130	0	0	
Toluene	24470	2,500	25000	0	97.9	80-120	0	0	
trans-1,3-Dichloropropene	26590	2,500	25000	0	106	80-120	0	0	
Trichloroethene	22420	2,500	25000	0	89.7	78.9-120	0	0	
Vinyl acetate	54820	5,000	50000	0	110	62.4-133	0	0	
Vinyl chloride	31980	1,000	25000	0	128	72.7-128	0	0	
Xylenes, Total	70410	7,500	75000	0	93.9	80-120	0	0	
Surr: 1,2-Dichloroethane-d4	25460	2,500	25000	0	102	71-126	0	0	
Surr: 4-Bromofluorobenzene	24610	2,500	25000	0	98.4	74-125	0	0	
Surr: Dibromofluoromethane	24240	2,500	25000	0	97	73-126	0	0	
Surr: Toluene-d8	24660	2,500	25000	0	98.6	75-125	0	0	

ND - Not Detected at the Reporting Limit

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O - Referenced analytic value is > 4 times amount spiked

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21864 InstrumentID: VOA1

MSD	Sample ID: 0407206-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 07/20/04 22:10			
Client ID:		Run ID:	VOA1_040720A	SeqNo:	511410	Prep Date:	DF: 500		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	27420	2,500	25000	0	110	75.2-120	24580	10.9	20
1,1,2,2-Tetrachloroethane	27750	2,500	25000	0	111	72.4-121	26570	4.33	20
1,1,2-Trichloroethane	27050	2,500	25000	0	108	80-120	26270	2.94	20
1,1-Dichloroethane	29270	2,500	25000	0	117	76.9-120	26990	8.11	20
1,1-Dichloroethene	29060	2,500	25000	0	116	72.6-123	25550	12.9	20
1,2-Dichloroethane	27920	2,500	25000	0	112	80-120	25750	8.11	20
2-Butanone	51890	5,000	50000	0	104	69-131	45790	12.5	20
2-Chloroethyl vinyl ether	52900	5,000	50000	0	106	60-135	51080	3.51	20
2-Hexanone	46060	5,000	50000	0	92.1	55.6-126	43470	5.79	20
4-Methyl-2-pentanone	52200	5,000	50000	0	104	67.4-121	45680	13.3	20
Acetone	55510	5,000	50000	0	111	64.4-140	51970	6.59	20
Benzene	42920	2,500	25000	16450	106	80-120	41390	3.63	20
Bromodichloromethane	26620	2,500	25000	0	106	80-120	25280	5.17	20
Bromoform	25310	2,500	25000	0	101	77.9-121	25140	0.66	20
Bromomethane	32120	2,500	25000	0	128	63.3-137	32720	1.86	20
Carbon disulfide	58880	5,000	50000	0	118	74.1-123	54600	7.54	20
Carbon tetrachloride	48750	2,500	25000	22910	103	74.7-120	43130	12.2	20
Chlorobenzene	95140	2,500	25000	68460	107	80-120	94470	0.711	20
Chloroethane	32290	2,500	25000	0	129	74.7-126	32640	1.09	20
Chloroform	45700	2,500	25000	17270	114	80-120	40540	12	20
Chloromethane	31770	2,500	25000	0	127	64.5-132	34110	7.1	20
cis-1,3-Dichloropropene	26040	2,500	25000	0	104	80-120	24940	4.31	20
Dibromochloromethane	26520	2,500	25000	0	106	80-120	26200	1.19	20
Ethylbenzene	24300	2,500	25000	0	97.2	80-120	23070	5.2	20
m,p-Xylene	50820	5,000	50000	0	102	80-120	46010	9.95	20
Methylene chloride	30380	5,000	25000	0	122	76.2-120	30380	1.2E-05	20
Styrene	25230	2,500	25000	0	101	80-120	24600	2.54	20
Tetrachloroethene	23580	2,500	25000	0	94.3	68.5-130	21120	11	20
Toluene	25900	2,500	25000	0	104	80-120	24470	5.67	20
trans-1,3-Dichloropropene	26210	2,500	25000	0	105	80-120	26590	1.41	20
Trichloroethene	24300	2,500	25000	0	97.2	78.9-120	22420	8.07	20
Vinyl acetate	60990	5,000	50000	0	122	62.4-133	54820	10.7	20
Vinyl chloride	32780	1,000	25000	0	131	72.7-128	31980	2.46	20
Xylenes, Total	76430	7,500	75000	0	102	80-120	70410	8.19	20
Surr: 1,2-Dichloroethane-d4	27170	2,500	25000	0	109	71-126	25460	6.5	20
Surr: 4-Bromofluorobenzene	24070	2,500	25000	0	96.3	74-125	24610	2.23	20
Surr: Dibromofluoromethane	26210	2,500	25000	0	105	73-126	24240	7.79	20
Surr: Toluene-d8	25060	2,500	25000	0	100	75-125	24660	1.61	20

The following samples were analyzed in this batch:

0407179-01A

0407179-02A

0407179-03A

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CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21788 InstrumentID: UV-2101PC

MBLK		Sample ID: WBLKW1-071704		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040717A		SeqNo: 509554		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		ND		0.020							
LCS		Sample ID: WLCSW1-071704		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040717A		SeqNo: 509555		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		0.1941	0.020	0.2		0	97	80-120		0	
MS		Sample ID: 0407129-03DMS		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040717A		SeqNo: 509573		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		0.1963	0.020	0.2	-0.002	99.1	75-125			0	
MSD		Sample ID: 0407129-03DMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040717A		SeqNo: 509574		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		0.1936	0.020	0.2	-0.002	97.8	75-125	0.1963	1.38	25	
DUP		Sample ID: 0407129-03DDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 07/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040717A		SeqNo: 509572		Prep Date:		DF: 1			
Analyte		Result		PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Cyanide		ND	0.020	0	0	0	0-0	-0.002	0	20	

The following samples were analyzed in this batch:

0407179-01D 0407179-02D 0407179-03D

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

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CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21801 InstrumentID: IC201

MBLK Sample ID: WBLKW1-071604 Test Code: E300 Units: mg/L Analysis Date: 07/16/04 17:35

Client ID: Run ID: IC201_040716B SeqNo: 509960 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.97	0.10	5	0	99.4	80-120	0			

LCS Sample ID: WLCSW1-071604 Test Code: E300 Units: mg/L Analysis Date: 07/16/04 18:04

Client ID: Run ID: IC201_040716B SeqNo: 509961 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.49	0.50	10	0	94.9	80-120	0			
Fluoride	1.93	0.10	2	0	96.5	80-120	0			
Sulfate	9.41	1.0	10	0	94.1	80-120	0			
Nitrate/Nitrite (as N)	3.91	0.10	0	0	0	80-120	0			
Surr: Dichloroacetic acid (surr)	5.15	0.10	5	0	103	80-120	0			

LCSD Sample ID: WLCSDW1-07160 Test Code: E300 Units: mg/L Analysis Date: 07/16/04 18:32

Client ID: Run ID: IC201_040716B SeqNo: 509962 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.46	0.50	10	0	94.6	80-120	9.49	0.317	20	
Fluoride	1.92	0.10	2	0	96	80-120	1.93	0.519	20	
Sulfate	9.41	1.0	10	0	94.1	80-120	9.41	0	20	
Nitrate/Nitrite (as N)	3.92	0.10	0	0	0	80-120	3.91	0.255	20	
Surr: Dichloroacetic acid (surr)	5.37	0.10	5	0	107	80-120	5.15	4.18	20	

MS Sample ID: 0407138-02HMS Test Code: E300 Units: mg/L Analysis Date: 07/16/04 19:58

Client ID: Run ID: IC201_040716B SeqNo: 509965 Prep Date: DF: 10

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	333.2	5.0	100	234.3	98.9	75-125	0			
Fluoride	19.5	1.0	20	0	97.5	75-125	0			
Sulfate	521.2	10	100	424	97.2	75-125	0			EO
Nitrate/Nitrite (as N)	38.2	1.0	40	0	95.5	75-125	0			
Surr: Dichloroacetic acid (surr)	52.5	1.0	50	0	105	80-120	0			

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U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21801 InstrumentID: IC201

MSD	Sample ID: 0407138-02HMSD	Test Code: E300			Units: mg/L		Analysis Date: 07/16/04 20:26			
Client ID:		Run ID: IC201_040716B		SeqNo:	509966	Prep Date:	DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	330.2	5.0	100	234.3	95.9	75-125	333.2	0.904	20	
Fluoride	19	1.0	20	0	95	75-125	19.5	2.6	20	
Sulfate	516.6	10	100	424	92.6	75-125	521.2	0.886	20	EO
Nitrate/Nitrite (as N)	37.6	1.0	40	0	94	75-125	38.2	1.58	20	
Surr: Dichloroacetic acid (surr)	53.3	1.0	50	0	107	80-120	52.5	1.51	20	

DUP	Sample ID: 0407138-02HDUP	Test Code: E300			Units: mg/L		Analysis Date: 07/16/04 19:29			
Client ID:		Run ID: IC201_040716B		SeqNo:	509964	Prep Date:	DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	232	5.0	0	0	0	0-0	234.3	0.986	20	
Fluoride	ND	1.0	0	0	0	0-0	0	0	20	
Sulfate	419.2	10	0	0	0	0-0	424	1.14	20	
Nitrate/Nitrite (as N)	ND	1.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	53.1	1.0	50	0	106	80-120	53.1	0	20	

DUP	Sample ID: 0407179-02BDUP	Test Code: E300			Units: mg/L		Analysis Date: 07/17/04 3:05			
Client ID:	NCL-32	Run ID: IC201_040716B	SeqNo:	509975	Prep Date:	DF: 100				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	248	50	0	0	0	0-0	248	0	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1072	100	0	0	0	0-0	1068	0.374	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	553	10	500	0	111	80-120	545	1.46	20	

DUP	Sample ID: 0407076-03BDUP	Test Code: E300			Units: mg/L		Analysis Date: 07/17/04 6:25			
Client ID:		Run ID: IC201_040716B	SeqNo:	509982	Prep Date:	DF: 100				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	924	50	0	0	0	0-0	923	0.108	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1375	100	0	0	0	0-0	1370	0.364	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	542	10	500	0	108	80-120	540	0.37	20	

The following samples were analyzed in this batch: 0407179-01B 0407179-02B 0407179-03B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0407179
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R21916 InstrumentID: WetChem

MBLK Sample ID: WBLKW1-072204 Test Code: E310.1 Units: mg/L Analysis Date: 07/22/04 0:00

Client ID: Run ID: WETCHEM_040722A SeqNo: 512756 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: WLCSW1-072204 Test Code: E310.1 Units: mg/L Analysis Date: 07/22/04 0:00

Client ID: Run ID: WETCHEM_040722A SeqNo: 512757 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	1000	5.0	0	1	0	0-0	0	0		
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0		
Alkalinity, Total (As CaCO3)	1000	5.0	1000	0	100	80-120	0	0		

DUP Sample ID: 0407119-02DDUP Test Code: E310.1 Units: mg/L Analysis Date: 07/22/04 0:00

Client ID: Run ID: WETCHEM_040722A SeqNo: 512775 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	340.1	5.0	0	0	0	0-0	340.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	340.1	5.0	0	0	0	0-0	340.1	0	20	

DUP Sample ID: 0407217-04BDUP Test Code: E310.1 Units: mg/L Analysis Date: 07/22/04 0:00

Client ID: Run ID: WETCHEM_040722A SeqNo: 512776 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	470.1	5.0	0	0	0	0-0	470.1	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	470.1	5.0	0	0	0	0-0	470.1	0	20	

The following samples were analyzed in this batch:

0407179-01B	0407179-02B	0407179-03B
-------------	-------------	-------------

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range



e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

QUALITY INTEGRITY SERVICE

Chain of Custody Form

Page 1 of 1

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Customer Information		Project Information		e-Lab Project Manager		Parameter/Method Request for Analysis											
Purchase Order	Project Name	Project Number	A	NCL/TCL													
Work Order	Bill To Company	Invoice Attn:	B														
Company Name	Address	Address	C														
Send Report To	City/State/Zip	City/State/Zip	D														
Address	Phone	Phone	E														
City/State/Zip	Fax	Fax	F														
Phone			G														
Fax			H														
e-Mail Address			I														
			J														
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	NCL-49	7/15/04	10:00	L		8	X										
2	NCL-32		10/5	/		1	X										
3	NCL-44		10/4/5	/			X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time (Check Box)		Other _____		Results Due Date:									
<u>B. J. Byrd</u>		FedEx		<input type="checkbox"/> 1 Wk Days <input type="checkbox"/> 3 Wk Days <input type="checkbox"/> 10 Wk Days		<input type="checkbox"/> 24 Hour											
Relinquished by:	Date: <u>7/15</u>	Time: <u>16:15</u>	Received by:	Date: <u>7/16/04</u>	Time: <u>10:00</u>	e-Lab Cooler ID: <u>100</u>	Cooler Temp: <u>40</u>	QC Package: <input type="checkbox"/> (Check Box Below)									
Relinquished by:	Date: <u>7/16/04</u>	Time: <u>10:00</u>	Received by:	Date: <u>7/16/04</u>	Time: <u>10:00</u>	e-Lab Cooler ID: <u>100</u>	Cooler Temp: <u>40</u>	QC Standard QC: <input type="checkbox"/>									
Logged by (Laboratory):	Date: <u>7/16/04</u>	Time: <u>10:00</u>	Checked by (Laboratory):	Date: <u>7/16/04</u>	Time: <u>10:00</u>	TRRP LRC: <input type="checkbox"/>	Level III: Raw Data: <input type="checkbox"/>										
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-Na ₂ SO ₄	7-Other	8- ^o C	Level IV: SW846 Methods/CLP like: <input type="checkbox"/>								
									Other: _____								

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Note: Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.

e-Lab Analytical, Inc.

Sample Receipt Checklist

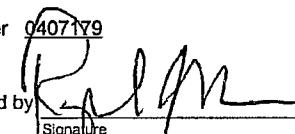
Client Name NAVAJO REFINING

Date/Time Received: 7/16/2004 9:10:00 AM

Work Order Number 0407179

Received by: RSZ

Checklist completed by:



Signature

Date

7/16/04

Reviewed by:



Initials

Date

7/16/04

Matrix: L

Carrier name: FedEx

- | | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <u>2.7c</u> | <u>004</u> | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

Adjusted? _____ Checked by _____

Login Notes:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

<p



e-Lab, Inc.

10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

May 05, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0404247**

Dear Jeff Byrd,

e-Lab, Inc. received 5 samples on 4/22/2004 10:05:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 50.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0404247

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0404247-01	MW-59	Water		4/21/2004 10:00	4/22/2004 10:05	<input type="checkbox"/>
0404247-02	TEL-4	Water		4/21/2004 09:00	4/22/2004 10:05	<input type="checkbox"/>
0404247-03	TEL-3	Water		4/21/2004 09:15	4/22/2004 10:05	<input type="checkbox"/>
0404247-04	TEL-2	Water		4/21/2004 09:30	4/22/2004 10:05	<input type="checkbox"/>
0404247-05	TEL-1	Water		4/21/2004 09:45	4/22/2004 10:05	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0404247

Case Narrative

Batch 8770 Metals MS/MSD and Duplicate recoveries were outside of control limits on an unrelated sample.

Batch R20173 Volatiles (sample MW-59) MS/MSD recoveries were outside of control limits for several compounds due to matrix effect.

Batch R20199 Volatiles MS/MSD recoveries were outside of control limits on an unrelated sample.

Batch R20204 Volatiles MS/MSD/RPD recoveries were outside of control limits on an unrelated sample.

Batch R20090 Anions MS/MSD/RPD and Duplicate recoveries were outside of control limits on an unrelated sample.

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-01

Client Sample ID: MW-59
Collection Date: 4/21/2004 10:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/27/2004 4/27/2004 5:01:18 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	4/29/2004 6:22:00 PM
Arsenic	0.0306	0.00500		mg/L	1	4/26/2004 9:51:00 PM
Barium	0.0133	0.00500		mg/L	1	4/29/2004 6:22:00 PM
Beryllium	ND	0.00200		mg/L	1	4/26/2004 9:51:00 PM
Boron	0.271	0.0200		mg/L	1	4/26/2004 9:51:00 PM
Cadmium	ND	0.00100		mg/L	1	4/29/2004 6:22:00 PM
Calcium	429	25.0		mg/L	50	4/28/2004 8:04:00 PM
Chromium	ND	0.00200		mg/L	1	4/26/2004 9:51:00 PM
Cobalt	0.00318	0.00200		mg/L	1	4/26/2004 9:51:00 PM
Copper	0.00612	0.00200		mg/L	1	4/26/2004 9:51:00 PM
Iron	0.954	0.200		mg/L	1	4/26/2004 9:51:00 PM
Lead	ND	0.00500		mg/L	1	4/26/2004 9:51:00 PM
Magnesium	266	4.00		mg/L	20	4/29/2004 1:57:00 PM
Manganese	0.346	0.00500		mg/L	1	4/26/2004 9:51:00 PM
Molybdenum	ND	0.00500		mg/L	1	4/26/2004 9:51:00 PM
Nickel	0.00688	0.00500		mg/L	1	4/26/2004 9:51:00 PM
Potassium	0.498	0.200		mg/L	1	4/26/2004 9:51:00 PM
Selenium	ND	0.00500		mg/L	1	4/26/2004 9:51:00 PM
Silver	ND	0.00500		mg/L	1	4/29/2004 6:22:00 PM
Sodium	137	.200		mg/L	10	4/28/2004 8:27:00 PM
Vanadium	ND	0.00500		mg/L	1	4/26/2004 9:51:00 PM
Zinc	0.0129	0.00500		mg/L	1	4/26/2004 9:51:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	5/3/2004 5:24:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	5/3/2004 5:24:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
2-Methylphenol	ND	10		µg/L	1	5/3/2004 5:24:00 PM
2-Nitroaniline	ND	10		µg/L	1	5/3/2004 5:24:00 PM
2-Nitrophenol	ND	10		µg/L	1	5/3/2004 5:24:00 PM
3-Nitroaniline	ND	10		µg/L	1	5/3/2004 5:24:00 PM
4-Methylphenol	ND	10		µg/L	1	5/3/2004 5:24:00 PM
4-Nitroaniline	ND	10		µg/L	1	5/3/2004 5:24:00 PM
4-Nitrophenol	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Acenaphthene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Acenaphthylene	ND	10		µg/L	1	5/3/2004 5:24:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-01

Client Sample ID: MW-59
Collection Date: 4/21/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Anthracene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Benz(a)anthracene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Benzidine	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Hexachloroethane	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Isophorone	ND	10		µg/L	1	5/3/2004 5:24:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	5/3/2004 5:24:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	5/3/2004 5:24:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Naphthalene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Nitrobenzene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Pentachlorophenol	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Phenantrhene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Phenol	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Pyrene	ND	10		µg/L	1	5/3/2004 5:24:00 PM
Surr: 2,4,6-Tribromophenol	89.4	39-153		%REC	1	5/3/2004 5:24:00 PM
Surr: 2-Fluorobiphenyl	81.0	40-147		%REC	1	5/3/2004 5:24:00 PM
Surr: 2-Fluorophenol	34.2	21-110		%REC	1	5/3/2004 5:24:00 PM
Surr: 4-Terphenyl-d14	84.2	39-141		%REC	1	5/3/2004 5:24:00 PM
Surr: Nitrobenzene-d5	75.5	37-140		%REC	1	5/3/2004 5:24:00 PM
Surr: Phenol-d6	20.7	11-100		%REC	1	5/3/2004 5:24:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
2-Butanone	ND	10		µg/L	1	4/28/2004 4:09:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	4/28/2004 4:09:00 PM
2-Hexanone	ND	10		µg/L	1	4/28/2004 4:09:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/28/2004 4:09:00 PM
Acetone	ND	10		µg/L	1	4/28/2004 4:09:00 PM
Benzene	190	5.0		µg/L	1	4/28/2004 4:09:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Bromoform	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Bromomethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Carbon disulfide	ND	10		µg/L	1	4/28/2004 4:09:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-01

Client Sample ID: MW-59
Collection Date: 4/21/2004 10:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Chloroethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Chloroform	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Chloromethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Ethylbenzene	15	5.0		µg/L	1	4/28/2004 4:09:00 PM
m,p-Xylene	ND	10		µg/L	1	4/28/2004 4:09:00 PM
Methylene chloride	ND	10		µg/L	1	4/28/2004 4:09:00 PM
Styrene	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Toluene	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/28/2004 4:09:00 PM
Vinyl acetate	ND	10		µg/L	1	4/28/2004 4:09:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/28/2004 4:09:00 PM
Xylenes, Total	ND	15		µg/L	1	4/28/2004 4:09:00 PM
Surr: 1,2-Dichloroethane-d4	84.8	71-126		%REC	1	4/28/2004 4:09:00 PM
Surr: 4-Bromofluorobenzene	93.3	74-125		%REC	1	4/28/2004 4:09:00 PM
Surr: Dibromofluoromethane	86.4	73-126		%REC	1	4/28/2004 4:09:00 PM
Surr: Toluene-d8	99.5	75-125		%REC	1	4/28/2004 4:09:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	163	2.50	mg/L	5
Fluoride	1.62	0.100	mg/L	1
Sulfate	1,630	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	96.6	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	420	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	420	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-02

Client Sample ID: TEL-4
Collection Date: 4/21/2004 9:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/27/2004 4/27/2004 5:02:48 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0446	0.0100		mg/L	1	4/29/2004 6:26:00 PM
Arsenic	0.00753	0.00500		mg/L	1	4/26/2004 9:56:00 PM
Barium	0.156	0.00500		mg/L	1	4/29/2004 6:26:00 PM
Beryllium	ND	0.00200		mg/L	1	4/26/2004 9:56:00 PM
Boron	0.670	0.0200		mg/L	1	4/26/2004 9:56:00 PM
Cadmium	ND	0.00100		mg/L	1	4/29/2004 6:26:00 PM
Calcium	230	25.0		mg/L	50	4/28/2004 8:09:00 PM
Chromium	0.00680	0.00200		mg/L	1	4/26/2004 9:56:00 PM
Cobalt	ND	0.00200		mg/L	1	4/26/2004 9:56:00 PM
Copper	0.00656	0.00200		mg/L	1	4/26/2004 9:56:00 PM
Iron	0.560	0.200		mg/L	1	4/26/2004 9:56:00 PM
Lead	ND	0.00500		mg/L	1	4/26/2004 9:56:00 PM
Magnesium	255	4.00		mg/L	20	4/29/2004 2:02:00 PM
Manganese	0.291	0.00500		mg/L	1	4/26/2004 9:56:00 PM
Molybdenum	ND	0.00500		mg/L	1	4/26/2004 9:56:00 PM
Nickel	0.00785	0.00500		mg/L	1	4/26/2004 9:56:00 PM
Potassium	0.384	0.200		mg/L	1	4/26/2004 9:56:00 PM
Selenium	ND	0.00500		mg/L	1	4/26/2004 9:56:00 PM
Silver	ND	0.00500		mg/L	1	4/29/2004 6:26:00 PM
Sodium	433	10.0		mg/L	50	4/28/2004 8:09:00 PM
Vanadium	ND	0.00500		mg/L	1	4/26/2004 9:56:00 PM
Zinc	0.0132	0.00500		mg/L	1	4/26/2004 9:56:00 PM
SEMIVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	5/3/2004 5:56:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	5/3/2004 5:56:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
2-Methylphenol	ND	10		µg/L	1	5/3/2004 5:56:00 PM
2-Nitroaniline	ND	10		µg/L	1	5/3/2004 5:56:00 PM
2-Nitrophenol	ND	10		µg/L	1	5/3/2004 5:56:00 PM
3-Nitroaniline	ND	10		µg/L	1	5/3/2004 5:56:00 PM
4-Methylphenol	ND	10		µg/L	1	5/3/2004 5:56:00 PM
4-Nitroaniline	ND	10		µg/L	1	5/3/2004 5:56:00 PM
4-Nitrophenol	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Acenaphthene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Acenaphthylene	ND	10		µg/L	1	5/3/2004 5:56:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-02

Client Sample ID: TEL-4
Collection Date: 4/21/2004 9:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Anthracene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Benz(a)anthracene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Benzidine	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Hexachloroethane	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Isophorone	ND	10		µg/L	1	5/3/2004 5:56:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	5/3/2004 5:56:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	5/3/2004 5:56:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Naphthalene	25	10		µg/L	1	5/3/2004 5:56:00 PM
Nitrobenzene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Pentachlorophenol	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Phenanthrene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Phenol	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Pyrene	ND	10		µg/L	1	5/3/2004 5:56:00 PM
Surr: 2,4,6-Tribromophenol	93.8	39-153		%REC	1	5/3/2004 5:56:00 PM
Surr: 2-Fluorobiphenyl	82.3	40-147		%REC	1	5/3/2004 5:56:00 PM
Surr: 2-Fluorophenol	34.5	21-110		%REC	1	5/3/2004 5:56:00 PM
Surr: 4-Terphenyl-d14	82.7	39-141		%REC	1	5/3/2004 5:56:00 PM
Surr: Nitrobenzene-d5	82.8	37-140		%REC	1	5/3/2004 5:56:00 PM
Surr: Phenol-d6	22.0	11-100		%REC	1	5/3/2004 5:56:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
2-Butanone	ND	10		µg/L	1	4/28/2004 5:29:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	4/28/2004 5:29:00 PM
2-Hexanone	ND	10		µg/L	1	4/28/2004 5:29:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/28/2004 5:29:00 PM
Acetone	150	10		µg/L	1	4/28/2004 5:29:00 PM
Benzene	3,100	120		µg/L	25	4/29/2004 5:36:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Bromoform	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Bromomethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Carbon disulfide	ND	10		µg/L	1	4/28/2004 5:29:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-02

Client Sample ID: TEL-4
Collection Date: 4/21/2004 9:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Chloroethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Chloroform	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Chloromethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Ethylbenzene	190	120		µg/L	25	4/29/2004 5:36:00 PM
m,p-Xylene	390	10		µg/L	1	4/28/2004 5:29:00 PM
Methylene chloride	ND	10		µg/L	1	4/28/2004 5:29:00 PM
Styrene	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Toluene	63	5.0		µg/L	1	4/28/2004 5:29:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/28/2004 5:29:00 PM
Vinyl acetate	ND	10		µg/L	1	4/28/2004 5:29:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/28/2004 5:29:00 PM
Xylenes, Total	390	15		µg/L	1	4/28/2004 5:29:00 PM
Surr: 1,2-Dichloroethane-d4	83.6	71-126		%REC	1	4/28/2004 5:29:00 PM
Surr: 1,2-Dichloroethane-d4	92.8	71-126		%REC	25	4/29/2004 5:36:00 PM
Surr: 4-Bromofluorobenzene	97.0	74-125		%REC	1	4/28/2004 5:29:00 PM
Surr: 4-Bromofluorobenzene	94.6	74-125		%REC	25	4/29/2004 5:36:00 PM
Surr: Dibromofluoromethane	88.4	73-126		%REC	25	4/29/2004 5:36:00 PM
Surr: Dibromofluoromethane	88.2	73-126		%REC	1	4/28/2004 5:29:00 PM
Surr: Toluene-d8	100	75-125		%REC	1	4/28/2004 5:29:00 PM
Surr: Toluene-d8	95.9	75-125		%REC	25	4/29/2004 5:36:00 PM
ANIONS BY ION CHROMATOGRAPHY						
				E300		Analyst: MG
Chloride	601	10.0		mg/L	20	4/27/2004 2:40:00 PM
Fluoride	1.05	0.100		mg/L	1	4/23/2004 12:03:00 PM
Sulfate	619	20.0		mg/L	20	4/27/2004 2:40:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	4/23/2004 12:03:00 PM
Surr: Dichloroacetic acid (surr)	107	80-120		%REC	1	4/23/2004 12:03:00 PM
Surr: Dichloroacetic acid (surr)	91.4	80-120		%REC	20	4/27/2004 2:40:00 PM
ALKALINITY						
				E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	970	5.00		mg/L	1	4/28/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	4/28/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	4/28/2004
Alkalinity, Total (As CaCO ₃)	970	5.00		mg/L	1	4/28/2004
CYANIDE, TOTAL						
				E335.3		Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	4/24/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-03

Client Sample ID: TEL-3
Collection Date: 4/21/2004 9:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/27/2004 4/27/2004 5:04:19 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0320	0.0100		mg/L	1	4/29/2004 6:31:00 PM
Arsenic	ND	0.00500		mg/L	1	4/26/2004 10:01:00 PM
Barium	0.0120	0.00500		mg/L	1	4/29/2004 6:31:00 PM
Beryllium	ND	0.00200		mg/L	1	4/26/2004 10:01:00 PM
Boron	0.589	0.0200		mg/L	1	4/26/2004 10:01:00 PM
Cadmium	ND	0.00100		mg/L	1	4/29/2004 6:31:00 PM
Calcium	608	25.0		mg/L	50	4/28/2004 8:14:00 PM
Chromium	ND	0.00200		mg/L	1	4/26/2004 10:01:00 PM
Cobalt	ND	0.00200		mg/L	1	4/26/2004 10:01:00 PM
Copper	0.00538	0.00200		mg/L	1	4/26/2004 10:01:00 PM
Iron	1.03	0.200		mg/L	1	4/26/2004 10:01:00 PM
Lead	ND	0.00500		mg/L	1	4/26/2004 10:01:00 PM
Magnesium	207	4.00		mg/L	20	4/29/2004 2:06:00 PM
Manganese	0.00784	0.00500		mg/L	1	4/26/2004 10:01:00 PM
Molybdenum	ND	0.00500		mg/L	1	4/26/2004 10:01:00 PM
Nickel	0.00681	0.00500		mg/L	1	4/26/2004 10:01:00 PM
Potassium	2.93	0.200		mg/L	1	4/26/2004 10:01:00 PM
Selenium	ND	0.00500		mg/L	1	4/26/2004 10:01:00 PM
Silver	ND	0.00500		mg/L	1	4/29/2004 6:31:00 PM
Sodium	79.9	2.00		mg/L	10	4/28/2004 8:36:00 PM
Vanadium	ND	0.00500		mg/L	1	4/26/2004 10:01:00 PM
Zinc	0.00928	0.00500		mg/L	1	4/26/2004 10:01:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	5/3/2004 6:27:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	5/3/2004 6:27:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
2-Methylphenol	ND	11		µg/L	1	5/3/2004 6:27:00 PM
2-Nitroaniline	ND	11		µg/L	1	5/3/2004 6:27:00 PM
2-Nitrophenol	ND	11		µg/L	1	5/3/2004 6:27:00 PM
3-Nitroaniline	ND	11		µg/L	1	5/3/2004 6:27:00 PM
4-Methylphenol	ND	11		µg/L	1	5/3/2004 6:27:00 PM
4-Nitroaniline	ND	11		µg/L	1	5/3/2004 6:27:00 PM
4-Nitrophenol	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Acenaphthene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Acenaphthylene	ND	11		µg/L	1	5/3/2004 6:27:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-03

Client Sample ID: TEL-3
Collection Date: 4/21/2004 9:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Anthracene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Benz(a)anthracene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Benzidine	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Hexachloroethane	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Isophorone	ND	11		µg/L	1	5/3/2004 6:27:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	5/3/2004 6:27:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	5/3/2004 6:27:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Naphthalene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Nitrobenzene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Pentachlorophenol	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Phenanthrene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Phenol	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Pyrene	ND	11		µg/L	1	5/3/2004 6:27:00 PM
Surr: 2,4,6-Tribromophenol	97.5	39-153		%REC	1	5/3/2004 6:27:00 PM
Surr: 2-Fluorobiphenyl	83.9	40-147		%REC	1	5/3/2004 6:27:00 PM
Surr: 2-Fluorophenol	35.3	21-110		%REC	1	5/3/2004 6:27:00 PM
Surr: 4-Terphenyl-d14	91.9	39-141		%REC	1	5/3/2004 6:27:00 PM
Surr: Nitrobenzene-d5	83.9	37-140		%REC	1	5/3/2004 6:27:00 PM
Surr: Phenol-d6	22.1	11-100		%REC	1	5/3/2004 6:27:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	4/30/2004 1:22:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	4/30/2004 1:22:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	4/30/2004 1:22:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	4/30/2004 1:22:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	4/30/2004 1:22:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	4/30/2004 1:22:00 PM
2-Butanone	ND	10	µg/L	4/30/2004 1:22:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	4/30/2004 1:22:00 PM
2-Hexanone	ND	10	µg/L	4/30/2004 1:22:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	4/30/2004 1:22:00 PM
Acetone	84	10	µg/L	4/30/2004 1:22:00 PM
Benzene	120	5.0	µg/L	4/30/2004 1:22:00 PM
Bromodichloromethane	ND	5.0	µg/L	4/30/2004 1:22:00 PM
Bromoform	ND	5.0	µg/L	4/30/2004 1:22:00 PM
Bromomethane	ND	5.0	µg/L	4/30/2004 1:22:00 PM
Carbon disulfide	ND	10	µg/L	4/30/2004 1:22:00 PM
Carbon tetrachloride	ND	5.0	µg/L	4/30/2004 1:22:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-03

Client Sample ID: TEL-3
Collection Date: 4/21/2004 9:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Chloroethane	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Chloroform	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Chloromethane	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Ethylbenzene	11	5.0		µg/L	1	4/30/2004 1:22:00 PM
m,p-Xylene	79	10		µg/L	1	4/30/2004 1:22:00 PM
Methylene chloride	ND	10		µg/L	1	4/30/2004 1:22:00 PM
Styrene	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Toluene	8.9	5.0		µg/L	1	4/30/2004 1:22:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/30/2004 1:22:00 PM
Vinyl acetate	ND	10		µg/L	1	4/30/2004 1:22:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/30/2004 1:22:00 PM
Xylenes, Total	84	15		µg/L	1	4/30/2004 1:22:00 PM
Surr: 1,2-Dichloroethane-d4	78.5	71-126		%REC	1	4/30/2004 1:22:00 PM
Surr: 4-Bromofluorobenzene	95.2	74-125		%REC	1	4/30/2004 1:22:00 PM
Surr: Dibromofluoromethane	79.9	73-126		%REC	1	4/30/2004 1:22:00 PM
Surr: Toluene-d8	100	75-125		%REC	1	4/30/2004 1:22:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	80.6	2.50	mg/L	5
Fluoride	3.10	0.100	mg/L	1
Sulfate	1,560	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	103	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	102	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	107	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	480	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	480	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

AR Page 9 of 16

e-Lab, Inc.**Date: May 05, 2004**

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-04

Client Sample ID: TEL-2
Collection Date: 4/21/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/27/2004 5:05:50 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	4/29/2004 6:36:00 PM
Arsenic	0.0114	0.00500		mg/L	1	4/26/2004 10:06:00 PM
Barium	0.195	0.00500		mg/L	1	4/29/2004 6:36:00 PM
Beryllium	ND	0.00200		mg/L	1	4/26/2004 10:06:00 PM
Boron	0.664	0.0200		mg/L	1	4/26/2004 10:06:00 PM
Cadmium	ND	0.00100		mg/L	1	4/29/2004 6:36:00 PM
Calcium	157	5.00		mg/L	10	4/28/2004 8:41:00 PM
Chromium	ND	0.00200		mg/L	1	4/26/2004 10:06:00 PM
Cobalt	ND	0.00200		mg/L	1	4/26/2004 10:06:00 PM
Copper	0.00382	0.00200		mg/L	1	4/26/2004 10:06:00 PM
Iron	0.354	0.200		mg/L	1	4/26/2004 10:06:00 PM
Lead	ND	0.00500		mg/L	1	4/26/2004 10:06:00 PM
Magnesium	163	2.00		mg/L	10	4/29/2004 2:11:00 PM
Manganese	0.0306	0.00500		mg/L	1	4/26/2004 10:06:00 PM
Molybdenum	ND	0.00500		mg/L	1	4/26/2004 10:06:00 PM
Nickel	ND	0.00500		mg/L	1	4/26/2004 10:06:00 PM
Potassium	0.805	0.200		mg/L	1	4/26/2004 10:06:00 PM
Selenium	ND	0.00500		mg/L	1	4/26/2004 10:06:00 PM
Silver	ND	0.00500		mg/L	1	4/29/2004 6:36:00 PM
Sodium	414	10.0		mg/L	50	4/28/2004 8:18:00 PM
Vanadium	ND	0.00500		mg/L	1	4/26/2004 10:06:00 PM
Zinc	0.00658	0.00500		mg/L	1	4/26/2004 10:06:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	5/3/2004 6:59:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	5/3/2004 6:59:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
2-Methylphenol	ND	10		µg/L	1	5/3/2004 6:59:00 PM
2-Nitroaniline	ND	10		µg/L	1	5/3/2004 6:59:00 PM
2-Nitrophenol	ND	10		µg/L	1	5/3/2004 6:59:00 PM
3-Nitroaniline	ND	10		µg/L	1	5/3/2004 6:59:00 PM
4-Methylphenol	ND	10		µg/L	1	5/3/2004 6:59:00 PM
4-Nitroaniline	ND	10		µg/L	1	5/3/2004 6:59:00 PM
4-Nitrophenol	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Acenaphthene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Acenaphthylene	ND	10		µg/L	1	5/3/2004 6:59:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-04

Client Sample ID: TEL-2
Collection Date: 4/21/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Anthracene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Benz(a)anthracene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Benzidine	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Hexachloroethane	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Isophorone	ND	10		µg/L	1	5/3/2004 6:59:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	5/3/2004 6:59:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	5/3/2004 6:59:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Naphthalene	22	10		µg/L	1	5/3/2004 6:59:00 PM
Nitrobenzene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Pentachlorophenol	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Phenanthrene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Phenol	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Pyrene	ND	10		µg/L	1	5/3/2004 6:59:00 PM
Surr: 2,4,6-Tribromophenol	101	39-153		%REC	1	5/3/2004 6:59:00 PM
Surr: 2-Fluorobiphenyl	85.1	40-147		%REC	1	5/3/2004 6:59:00 PM
Surr: 2-Fluorophenol	44.4	21-110		%REC	1	5/3/2004 6:59:00 PM
Surr: 4-Terphenyl-d14	91.6	39-141		%REC	1	5/3/2004 6:59:00 PM
Surr: Nitrobenzene-d5	91.5	37-140		%REC	1	5/3/2004 6:59:00 PM
Surr: Phenol-d6	31.3	11-100		%REC	1	5/3/2004 6:59:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
2-Butanone	ND	10		µg/L	1	4/28/2004 6:23:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	4/28/2004 6:23:00 PM
2-Hexanone	ND	10		µg/L	1	4/28/2004 6:23:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/28/2004 6:23:00 PM
Acetone	ND	10		µg/L	1	4/28/2004 6:23:00 PM
Benzene	1,900	50		µg/L	10	4/29/2004 6:03:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Bromoform	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Bromomethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Carbon disulfide	ND	10		µg/L	1	4/28/2004 6:23:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-04

Client Sample ID: TEL-2
Collection Date: 4/21/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Chloroethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Chloroform	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Chloromethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Ethylbenzene	54	5.0		µg/L	1	4/28/2004 6:23:00 PM
m,p-Xylene	230	10		µg/L	1	4/28/2004 6:23:00 PM
Methylene chloride	ND	10		µg/L	1	4/28/2004 6:23:00 PM
Styrene	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Toluene	140	5.0		µg/L	1	4/28/2004 6:23:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/28/2004 6:23:00 PM
Vinyl acetate	ND	10		µg/L	1	4/28/2004 6:23:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/28/2004 6:23:00 PM
Xylenes, Total	260	15		µg/L	1	4/28/2004 6:23:00 PM
Surr: 1,2-Dichloroethane-d4	80.3	71-126		%REC	1	4/28/2004 6:23:00 PM
Surr: 1,2-Dichloroethane-d4	92.6	71-126		%REC	10	4/29/2004 6:03:00 PM
Surr: 4-Bromofluorobenzene	92.9	74-125		%REC	1	4/28/2004 6:23:00 PM
Surr: 4-Bromofluorobenzene	93.9	74-125		%REC	10	4/29/2004 6:03:00 PM
Surr: Dibromofluoromethane	82.0	73-126		%REC	1	4/28/2004 6:23:00 PM
Surr: Dibromofluoromethane	89.0	73-126		%REC	10	4/29/2004 6:03:00 PM
Surr: Toluene-d8	95.2	75-125		%REC	1	4/28/2004 6:23:00 PM
Surr: Toluene-d8	97.6	75-125		%REC	10	4/29/2004 6:03:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	196	5.00	mg/L	10	4/27/2004 3:37:00 PM
Fluoride	1.33	0.100	mg/L	1	4/23/2004 1:57:00 PM
Sulfate	779	20.0	mg/L	20	4/27/2004 4:05:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/23/2004 1:57:00 PM
Surr: Dichloroacetic acid (surr)	103	80-120	%REC	1	4/23/2004 1:57:00 PM
Surr: Dichloroacetic acid (surr)	97.4	80-120	%REC	10	4/27/2004 3:37:00 PM
Surr: Dichloroacetic acid (surr)	95.2	80-120	%REC	20	4/27/2004 4:05:00 PM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	860	5.00	mg/L	1	4/28/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/28/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/28/2004
Alkalinity, Total (As CaCO ₃)	860	5.00	mg/L	1	4/28/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-04

Client Sample ID: TEL-2
Collection Date: 4/21/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Cyanide	ND	0.0200		mg/L	1	4/24/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-05

Client Sample ID: TEL-1
Collection Date: 4/21/2004 9:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	4/27/2004 5:07:21 PM
ICP METALS, TOTAL			SW6020			
Aluminum	ND	0.0100		mg/L	1	4/26/2004 10:10:00 PM
Arsenic	ND	0.00500		mg/L	1	4/26/2004 10:10:00 PM
Barium	0.0125	0.00500		mg/L	1	4/29/2004 6:41:00 PM
Beryllium	ND	0.00200		mg/L	1	4/26/2004 10:10:00 PM
Boron	0.568	0.0200		mg/L	1	4/26/2004 10:10:00 PM
Cadmium	ND	0.00100		mg/L	1	4/29/2004 6:41:00 PM
Calcium	530	25.0		mg/L	50	4/28/2004 8:23:00 PM
Chromium	ND	0.00200		mg/L	1	4/26/2004 10:10:00 PM
Cobalt	ND	0.00200		mg/L	1	4/26/2004 10:10:00 PM
Copper	0.00409	0.00200		mg/L	1	4/26/2004 10:10:00 PM
Iron	0.868	0.200		mg/L	1	4/26/2004 10:10:00 PM
Lead	ND	0.00500		mg/L	1	4/26/2004 10:10:00 PM
Magnesium	164	2.00		mg/L	10	4/29/2004 2:25:00 PM
Manganese	0.132	0.00500		mg/L	1	4/26/2004 10:10:00 PM
Molybdenum	ND	0.00500		mg/L	1	4/26/2004 10:10:00 PM
Nickel	0.00576	0.00500		mg/L	1	4/26/2004 10:10:00 PM
Potassium	1.12	0.200		mg/L	1	4/26/2004 10:10:00 PM
Selenium	ND	0.00500		mg/L	1	4/26/2004 10:10:00 PM
Silver	ND	0.00500		mg/L	1	4/29/2004 6:41:00 PM
Sodium	445	10.0		mg/L	50	4/28/2004 8:23:00 PM
Vanadium	ND	0.00500		mg/L	1	4/26/2004 10:10:00 PM
Zinc	ND	0.00500		mg/L	1	4/26/2004 10:10:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	5/3/2004 7:31:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	5/3/2004 7:31:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
2-Methylphenol	ND	11		µg/L	1	5/3/2004 7:31:00 PM
2-Nitroaniline	ND	11		µg/L	1	5/3/2004 7:31:00 PM
2-Nitrophenol	ND	11		µg/L	1	5/3/2004 7:31:00 PM
3-Nitroaniline	ND	11		µg/L	1	5/3/2004 7:31:00 PM
4-Methylphenol	ND	11		µg/L	1	5/3/2004 7:31:00 PM
4-Nitroaniline	ND	11		µg/L	1	5/3/2004 7:31:00 PM
4-Nitrophenol	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Acenaphthene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Acenaphthylene	ND	11		µg/L	1	5/3/2004 7:31:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-05

Client Sample ID: TEL-1
Collection Date: 4/21/2004 9:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Anthracene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Benz(a)anthracene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Benzidine	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Hexachloroethane	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Isophorone	ND	11		µg/L	1	5/3/2004 7:31:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	5/3/2004 7:31:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	5/3/2004 7:31:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Naphthalene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Nitrobenzene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Pentachlorophenol	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Phenanthrene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Phenol	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Pyrene	ND	11		µg/L	1	5/3/2004 7:31:00 PM
Surr: 2,4,6-Tribromophenol	107	39-153		%REC	1	5/3/2004 7:31:00 PM
Surr: 2-Fluorobiphenyl	97.0	40-147		%REC	1	5/3/2004 7:31:00 PM
Surr: 2-Fluorophenol	51.7	21-110		%REC	1	5/3/2004 7:31:00 PM
Surr: 4-Terphenyl-d14	100	39-141		%REC	1	5/3/2004 7:31:00 PM
Surr: Nitrobenzene-d5	95.0	37-140		%REC	1	5/3/2004 7:31:00 PM
Surr: Phenol-d6	32.7	11-100		%REC	1	5/3/2004 7:31:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
2-Butanone	ND	10		µg/L	1	4/28/2004 6:50:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	4/28/2004 6:50:00 PM
2-Hexanone	ND	10		µg/L	1	4/28/2004 6:50:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/28/2004 6:50:00 PM
Acetone	ND	10		µg/L	1	4/28/2004 6:50:00 PM
Benzene	39	5.0		µg/L	1	4/28/2004 6:50:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Bromoform	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Bromomethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Carbon disulfide	ND	10		µg/L	1	4/28/2004 6:50:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: May 05, 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL
Lab ID: 0404247-05

Client Sample ID: TEL-1
Collection Date: 4/21/2004 9:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Chloroethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Chloroform	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Chloromethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Ethylbenzene	6.8	5.0		µg/L	1	4/28/2004 6:50:00 PM
m,p-Xylene	17	10		µg/L	1	4/28/2004 6:50:00 PM
Methylene chloride	ND	10		µg/L	1	4/28/2004 6:50:00 PM
Styrene	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Toluene	7.4	5.0		µg/L	1	4/28/2004 6:50:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/28/2004 6:50:00 PM
Vinyl acetate	ND	10		µg/L	1	4/28/2004 6:50:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/28/2004 6:50:00 PM
Xylenes, Total	24	15		µg/L	1	4/28/2004 6:50:00 PM
Surr: 1,2-Dichloroethane-d4	79.3	71-126		%REC	1	4/28/2004 6:50:00 PM
Surr: 4-Bromofluorobenzene	90.3	74-125		%REC	1	4/28/2004 6:50:00 PM
Surr: Dibromofluoromethane	80.3	73-126		%REC	1	4/28/2004 6:50:00 PM
Surr: Toluene-d8	94.7	75-125		%REC	1	4/28/2004 6:50:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300****Analyst: MG**

Chloride	195	2.50	mg/L	5	4/23/2004 3:43:00 PM
Fluoride	1.85	0.100	mg/L	1	4/23/2004 3:15:00 PM
Sulfate	1,770	100	mg/L	100	4/27/2004 5:31:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/23/2004 3:15:00 PM
Surr: Dichloroacetic acid (surr)	102	80-120	%REC	1	4/23/2004 3:15:00 PM
Surr: Dichloroacetic acid (surr)	103	80-120	%REC	5	4/23/2004 3:43:00 PM
Surr: Dichloroacetic acid (surr)	98.0	80-120	%REC	100	4/27/2004 5:31:00 PM

ALKALINITY**E310.1****Analyst: LMD**

Alkalinity, Bicarbonate (As CaCO ₃)	455	5.00	mg/L	1	4/28/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/28/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/28/2004
Alkalinity, Total (As CaCO ₃)	455	5.00	mg/L	1	4/28/2004

CYANIDE, TOTAL**E335.3****Analyst: LMD**

Cyanide	ND	0.0200	mg/L	1	4/24/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit
	J - Analyte detected below quantitation limits
	B - Analyte detected in the associated Method Blank
	* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

P - Dual Column results percent difference > 40%

E - Value above quantitation range

H - Analyzed outside of Hold Time

AR Page 16 of 16

e-Lab, Inc.

Date: May 05 2004

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8753 InstrumentID: Mercury

MBLK Sample ID: GBLKW1-042704 Test Code: SW7470 Units: mg/L Analysis Date: 04/27/04 16:11

Client ID: Run ID: MERCURY_040427A SeqNo: 462206 Prep Date: 4/27/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: GLCSW1-042704 Test Code: SW7470 Units: mg/L Analysis Date: 04/27/04 16:12

Client ID: Run ID: MERCURY_040427A SeqNo: 462207 Prep Date: 4/27/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00506	0.00020	0.005	0	101	83-115	0			

LCSD Sample ID: GLCSDW1-042704 Test Code: SW7470 Units: mg/L Analysis Date: 04/27/04 16:22

Client ID: Run ID: MERCURY_040427A SeqNo: 462208 Prep Date: 4/27/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00505	0.00020	0.005	0	101	83-115	0.00506	0.198	20	

MS Sample ID: 0404224-01BMS Test Code: SW7470 Units: mg/L Analysis Date: 04/27/04 16:36

Client ID: Run ID: MERCURY_040427A SeqNo: 462211 Prep Date: 4/27/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00457	0.00020	0.005	0.000015	91.1	83-115	0			

MSD Sample ID: 0404224-01BMSD Test Code: SW7470 Units: mg/L Analysis Date: 04/27/04 16:38

Client ID: Run ID: MERCURY_040427A SeqNo: 462212 Prep Date: 4/27/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	0.00454	0.00020	0.005	0.000015	90.5	83-115	0.00457	0.659	20	

DUP Sample ID: 0404224-01BDUP Test Code: SW7470 Units: mg/L Analysis Date: 04/27/04 16:27

Client ID: Run ID: MERCURY_040427A SeqNo: 462210 Prep Date: 4/27/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	0.000015	0	20	

The following samples were analyzed in this batch:

0404247-01C 0404247-02C 0404247-03C

0404247-04C 0404247-05C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404247
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8770 InstrumentID: ICP4500

MBLK Sample ID: MBLKW1-042504 Test Code: SW6020 Units: mg/L Analysis Date: 04/26/04 19:13

Client ID: Run ID: ICP4500_040426A SeqNo: 461616 Prep Date: 4/25/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	ND	0.0020								
Boron	ND	0.020								

MBLK Sample ID: MBLKW1-042504 Test Code: SW6020 Units: mg/L Analysis Date: 04/27/04 12:58

Client ID: Run ID: ICP4500_040427A SeqNo: 461931 Prep Date: 4/25/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.001911	0.010								J
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Cadmium	0.0002938	0.0020								J
Calcium	ND	0.50								
Chromium	ND	0.0050								
Cobalt	0.0003446	0.0050								J
Copper	ND	0.0050								
Iron	0.02792	0.20								J
Lead	0.0003975	0.0050								J
Magnesium	0.0267	0.20								J
Manganese	ND	0.0050								
Molybdenum	ND	0.0050								
Nickel	ND	0.0050								
Potassium	0.02614	0.20								J
Selenium	ND	0.0050								
Silver	0.0003358	0.0050								J
Sodium	0.03231	0.20								J
Vanadium	ND	0.0050								
Zinc	ND	0.0050								

LCS Sample ID: MLCSW1-042504 Test Code: SW6020 Units: mg/L Analysis Date: 04/26/04 19:18

Client ID: Run ID: ICP4500_040426A SeqNo: 461617 Prep Date: 4/25/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium			0.05		0	98.1	78.9-120		0	



e-Lab, Inc.

10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

April 28, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0404140**

Dear Jeff Byrd,

e-Lab, Inc. received 3 samples on 4/14/2004 9:00:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 38.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab, Inc.

Date: April 28, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0404140

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0404140-01	MW-60	Water		4/13/2004 13:30	4/14/2004 09:00	<input type="checkbox"/>
0404140-02	NCL-33	Water		4/13/2004 14:15	4/14/2004 09:00	<input type="checkbox"/>
0404140-03	NCL-34	Water		4/13/2004 15:00	4/14/2004 09:00	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0404140

Case Narrative

Batch 8655 Semivolatile LCS/LCSD RPD recoveries were outside control limits for Aniline (30.2%) and Benzidine (58%). Both compounds were within QC criteria in the LCS/LCSD, therefore the data was accepted.

Batch R20118 Volatiles MS/MSD recoveries were outside of control limits for 2-Chloroethyl vinyl ether (29.8% and 23.2%) and Benzene (126% in MSD only). 2-Chloroethyl vinyl ether rapidly decomposes when it reacts with an acid matrix, and Benzene had acceptable criteria in the method blank, LCS and MS.

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-01

Client Sample ID: MW-60
Collection Date: 4/13/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/22/2004 3:25:17 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0367	0.0100		mg/L	1	4/20/2004 5:01:00 PM
Arsenic	0.0359	0.00500		mg/L	1	4/20/2004 5:01:00 PM
Barium	0.0114	0.00500		mg/L	1	4/20/2004 5:01:00 PM
Beryllium	ND	0.00200		mg/L	1	4/20/2004 5:01:00 PM
Boron	0.525	0.0400		mg/L	2	4/20/2004 4:19:00 PM
Cadmium	ND	0.00100		mg/L	1	4/20/2004 5:01:00 PM
Calcium	336	10.0		mg/L	20	4/21/2004 12:24:00 PM
Chromium	ND	0.00200		mg/L	1	4/20/2004 5:01:00 PM
Cobalt	0.00660	0.00200		mg/L	1	4/20/2004 5:01:00 PM
Copper	0.00795	0.00200		mg/L	1	4/20/2004 5:01:00 PM
Iron	2.57	0.200		mg/L	1	4/20/2004 5:01:00 PM
Lead	ND	0.00500		mg/L	1	4/20/2004 5:01:00 PM
Magnesium	283	4.00		mg/L	20	4/21/2004 12:24:00 PM
Manganese	0.702	0.0100		mg/L	2	4/20/2004 4:19:00 PM
Molybdenum	0.00630	0.00500		mg/L	1	4/21/2004 1:52:00 PM
Nickel	0.0105	0.00500		mg/L	1	4/20/2004 5:01:00 PM
Potassium	0.432	0.200		mg/L	1	4/20/2004 5:01:00 PM
Selenium	ND	0.00500		mg/L	1	4/20/2004 5:01:00 PM
Silver	ND	0.00500		mg/L	1	4/20/2004 5:01:00 PM
Sodium	203	4.00		mg/L	20	4/21/2004 12:24:00 PM
Vanadium	ND	0.00500		mg/L	1	4/20/2004 5:01:00 PM
Zinc	0.0168	0.00500		mg/L	1	4/20/2004 5:01:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
2,4,5-Trichlorophenol	ND	11		µg/L	1	4/23/2004 8:24:00 PM
2,4,6-Trichlorophenol	ND	11		µg/L	1	4/23/2004 8:24:00 PM
2-Methylnaphthalene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
2-Methylphenol	ND	11		µg/L	1	4/23/2004 8:24:00 PM
2-Nitroaniline	ND	11		µg/L	1	4/23/2004 8:24:00 PM
2-Nitrophenol	ND	11		µg/L	1	4/23/2004 8:24:00 PM
3-Nitroaniline	ND	11		µg/L	1	4/23/2004 8:24:00 PM
4-Methylphenol	ND	11		µg/L	1	4/23/2004 8:24:00 PM
4-Nitroaniline	ND	11		µg/L	1	4/23/2004 8:24:00 PM
4-Nitrophenol	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Acenaphthene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Acenaphthylene	ND	11		µg/L	1	4/23/2004 8:24:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** April 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-01

Client Sample ID: MW-60
Collection Date: 4/13/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Anthracene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Benz(a)anthracene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Benzidine	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Hexachloroethane	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Indeno(1,2,3-cd)pyrene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Isophorone	ND	11		µg/L	1	4/23/2004 8:24:00 PM
N-Nitrosodi-n-propylamine	ND	11		µg/L	1	4/23/2004 8:24:00 PM
N-Nitrosodimethylamine	ND	11		µg/L	1	4/23/2004 8:24:00 PM
N-Nitrosodiphenylamine	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Naphthalene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Nitrobenzene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Pentachlorophenol	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Phenanthrone	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Phenol	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Pyrene	ND	11		µg/L	1	4/23/2004 8:24:00 PM
Surr: 2,4,6-Tribromophenol	103	39-153		%REC	1	4/23/2004 8:24:00 PM
Surr: 2-Fluorobiphenyl	88.8	40-147		%REC	1	4/23/2004 8:24:00 PM
Surr: 2-Fluorophenol	50.7	21-110		%REC	1	4/23/2004 8:24:00 PM
Surr: 4-Terphenyl-d14	96.6	39-141		%REC	1	4/23/2004 8:24:00 PM
Surr: Nitrobenzene-d5	81.9	37-140		%REC	1	4/23/2004 8:24:00 PM
Surr: Phenol-d6	31.3	11-100		%REC	1	4/23/2004 8:24:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
2-Butanone	ND	10		µg/L	1	4/26/2004 4:37:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	4/26/2004 4:37:00 PM
2-Hexanone	ND	10		µg/L	1	4/26/2004 4:37:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	4/26/2004 4:37:00 PM
Acetone	ND	10		µg/L	1	4/26/2004 4:37:00 PM
Benzene	13	5.0		µg/L	1	4/26/2004 4:37:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Bromoform	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Bromomethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Carbon disulfide	ND	10		µg/L	1	4/26/2004 4:37:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-01

Client Sample ID: MW-60
Collection Date: 4/13/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Chloroethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Chloroform	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Chloromethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Ethylbenzene	5.4	5.0		µg/L	1	4/26/2004 4:37:00 PM
m,p-Xylene	ND	10		µg/L	1	4/26/2004 4:37:00 PM
Methylene chloride	ND	10		µg/L	1	4/26/2004 4:37:00 PM
Styrene	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Toluene	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/26/2004 4:37:00 PM
Vinyl acetate	ND	10		µg/L	1	4/26/2004 4:37:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/26/2004 4:37:00 PM
Xylenes, Total	ND	15		µg/L	1	4/26/2004 4:37:00 PM
Surr: 1,2-Dichloroethane-d4	93.1	71-126		%REC	1	4/26/2004 4:37:00 PM
Surr: 4-Bromofluorobenzene	93.4	74-125		%REC	1	4/26/2004 4:37:00 PM
Surr: Dibromofluoromethane	93.2	73-126		%REC	1	4/26/2004 4:37:00 PM
Surr: Toluene-d8	103	75-125		%REC	1	4/26/2004 4:37:00 PM

ANIONS BY ION CHROMATOGRAPHY

E300

Analyst: MG

Chloride	186	5.00	mg/L	10	4/17/2004 12:58:00 AM
Fluoride	1.11	0.100	mg/L	1	4/15/2004 5:36:00 PM
Sulfate	1,670	100	mg/L	100	4/17/2004 1:27:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/15/2004 5:36:00 PM
Surr: Dichloroacetic acid (surr)	98.0	80-120	%REC	1	4/15/2004 5:36:00 PM
Surr: Dichloroacetic acid (surr)	103	80-120	%REC	10	4/17/2004 12:58:00 AM
Surr: Dichloroacetic acid (surr)	107	80-120	%REC	100	4/17/2004 1:27:00 AM

ALKALINITY

E310.1

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	525	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	525	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL

E335.3

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-02

Client Sample ID: NCL-33
Collection Date: 4/13/2004 2:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/22/2004 3:26:47 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0177	0.0100		mg/L	1	4/20/2004 5:06:00 PM
Arsenic	ND	0.00500		mg/L	1	4/20/2004 5:06:00 PM
Barium	0.0534	0.00500		mg/L	1	4/20/2004 5:06:00 PM
Beryllium	ND	0.00200		mg/L	1	4/20/2004 5:06:00 PM
Boron	0.597	0.0400		mg/L	2	4/20/2004 4:24:00 PM
Cadmium	ND	0.00100		mg/L	1	4/20/2004 5:06:00 PM
Calcium	308	10.0		mg/L	20	4/21/2004 12:29:00 PM
Chromium	ND	0.00200		mg/L	1	4/20/2004 5:06:00 PM
Cobalt	ND	0.00200		mg/L	1	4/20/2004 5:06:00 PM
Copper	0.00253	0.00200		mg/L	1	4/20/2004 5:06:00 PM
Iron	2.08	0.200		mg/L	1	4/20/2004 5:06:00 PM
Lead	ND	0.00500		mg/L	1	4/20/2004 5:06:00 PM
Magnesium	99.0	4.00		mg/L	20	4/21/2004 12:29:00 PM
Manganese	0.0740	0.00500		mg/L	1	4/20/2004 5:06:00 PM
Molybdenum	ND	0.00500		mg/L	1	4/21/2004 1:57:00 PM
Nickel	0.00526	0.00500		mg/L	1	4/20/2004 5:06:00 PM
Potassium	3.54	0.200		mg/L	1	4/20/2004 5:06:00 PM
Selenium	ND	0.00500		mg/L	1	4/20/2004 5:06:00 PM
Silver	ND	0.00500		mg/L	1	4/20/2004 5:06:00 PM
Sodium	89.9	4.00		mg/L	20	4/21/2004 12:29:00 PM
Vanadium	ND	0.00500		mg/L	1	4/20/2004 5:06:00 PM
Zinc	0.00565	0.00500		mg/L	1	4/20/2004 5:06:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/23/2004 8:56:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/23/2004 8:56:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
2-Methylphenol	ND	10		µg/L	1	4/23/2004 8:56:00 PM
2-Nitroaniline	ND	10		µg/L	1	4/23/2004 8:56:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/23/2004 8:56:00 PM
3-Nitroaniline	ND	10		µg/L	1	4/23/2004 8:56:00 PM
4-Methylphenol	ND	10		µg/L	1	4/23/2004 8:56:00 PM
4-Nitroaniline	ND	10		µg/L	1	4/23/2004 8:56:00 PM
4-Nitrophenol	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Acenaphthene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Acenaphthylene	ND	10		µg/L	1	4/23/2004 8:56:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-02

Client Sample ID: NCL-33
Collection Date: 4/13/2004 2:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Anthracene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Benzidine	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Hexachloroethane	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Isophorone	ND	10		µg/L	1	4/23/2004 8:56:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/23/2004 8:56:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/23/2004 8:56:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Naphthalene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Nitrobenzene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Pentachlorophenol	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Phenanthrene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Phenol	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Pyrene	ND	10		µg/L	1	4/23/2004 8:56:00 PM
Surr: 2,4,6-Tribromophenol	102	39-153		%REC	1	4/23/2004 8:56:00 PM
Surr: 2-Fluorobiphenyl	84.8	40-147		%REC	1	4/23/2004 8:56:00 PM
Surr: 2-Fluorophenol	35.5	21-110		%REC	1	4/23/2004 8:56:00 PM
Surr: 4-Terphenyl-d14	93.1	39-141		%REC	1	4/23/2004 8:56:00 PM
Surr: Nitrobenzene-d5	77.4	37-140		%REC	1	4/23/2004 8:56:00 PM
Surr: Phenol-d6	19.4	11-100		%REC	1	4/23/2004 8:56:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	4/26/2004 5:57:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	4/26/2004 5:57:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	4/26/2004 5:57:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	4/26/2004 5:57:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	4/26/2004 5:57:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	4/26/2004 5:57:00 PM
2-Butanone	ND	10	µg/L	4/26/2004 5:57:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	4/26/2004 5:57:00 PM
2-Hexanone	ND	10	µg/L	4/26/2004 5:57:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	4/26/2004 5:57:00 PM
Acetone	ND	10	µg/L	4/26/2004 5:57:00 PM
Benzene	ND	5.0	µg/L	4/26/2004 5:57:00 PM
Bromodichloromethane	ND	5.0	µg/L	4/26/2004 5:57:00 PM
Bromoform	ND	5.0	µg/L	4/26/2004 5:57:00 PM
Bromomethane	ND	5.0	µg/L	4/26/2004 5:57:00 PM
Carbon disulfide	ND	10	µg/L	4/26/2004 5:57:00 PM
Carbon tetrachloride	ND	5.0	µg/L	4/26/2004 5:57:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-02

Client Sample ID: NCL-33
Collection Date: 4/13/2004 2:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Chloroethane	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Chloroform	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Chloromethane	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Ethylbenzene	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
m,p-Xylene	ND	10		µg/L	1	4/26/2004 5:57:00 PM
Methylene chloride	ND	10		µg/L	1	4/26/2004 5:57:00 PM
Styrene	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Toluene	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/26/2004 5:57:00 PM
Vinyl acetate	ND	10		µg/L	1	4/26/2004 5:57:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/26/2004 5:57:00 PM
Xylenes, Total	ND	15		µg/L	1	4/26/2004 5:57:00 PM
Surr: 1,2-Dichloroethane-d4	88.6	71-126		%REC	1	4/26/2004 5:57:00 PM
Surr: 4-Bromofluorobenzene	87.4	74-125		%REC	1	4/26/2004 5:57:00 PM
Surr: Dibromofluoromethane	90.6	73-126		%REC	1	4/26/2004 5:57:00 PM
Surr: Toluene-d8	100	75-125		%REC	1	4/26/2004 5:57:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	314	5.00	mg/L	10	4/17/2004 1:55:00 AM
Fluoride	2.02	0.100	mg/L	1	4/15/2004 6:05:00 PM
Sulfate	315	10.0	mg/L	10	4/17/2004 1:55:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/15/2004 6:05:00 PM
Surr: Dichloroacetic acid (surr)	93.2	80-120	%REC	1	4/15/2004 6:05:00 PM
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	10	4/17/2004 1:55:00 AM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	633	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	633	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** April 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-03

Client Sample ID: NCL-34
Collection Date: 4/13/2004 3:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed	
MERCURY, TOTAL							
Mercury	ND	0.000200		mg/L	1	Prep Date: 4/20/2004 Analyst: JCJ 4/22/2004 3:28:18 PM	
ICP METALS, TOTAL							
Aluminum	0.0142	0.0100		mg/L	1	Prep Date: 4/19/2004 Analyst: SA 4/19/2004 10:26:00 PM	
Arsenic	ND	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
Barium	0.631	0.100		mg/L	20	4/21/2004 3:08:00 PM	
Beryllium	ND	0.00200		mg/L	1	4/19/2004 10:26:00 PM	
Boron	0.413	0.0200		mg/L	1	4/19/2004 10:26:00 PM	
Cadmium	ND	0.00100		mg/L	1	4/19/2004 10:26:00 PM	
Calcium	229	10.0		mg/L	20	4/21/2004 3:08:00 PM	
Chromium	ND	0.00200		mg/L	1	4/19/2004 10:26:00 PM	
Cobalt	ND	0.00200		mg/L	1	4/19/2004 10:26:00 PM	
Copper	ND	0.00200		mg/L	1	4/19/2004 10:26:00 PM	
Iron	0.323	0.200		mg/L	1	4/19/2004 10:26:00 PM	
Lead	ND	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
Magnesium	82.6	4.00		mg/L	20	4/21/2004 3:08:00 PM	
Manganese	0.117	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
Molybdenum	ND	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
Nickel	ND	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
Potassium	0.818	0.200		mg/L	1	4/19/2004 10:26:00 PM	
Selenium	ND	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
Silver	ND	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
Sodium	128	4.00		mg/L	20	4/21/2004 3:08:00 PM	
Vanadium	ND	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
Zinc	0.0296	0.00500		mg/L	1	4/19/2004 10:26:00 PM	
SEMOVOLATILE ORGANICS BY GC/MS							
1,2,4-Trichlorobenzene	ND	10		µg/L	1	Prep Date: 4/15/2004 Analyst: HV 4/23/2004 9:28:00 PM	
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
2-Methylnaphthalene	10	10		µg/L	1	4/23/2004 9:28:00 PM	
2-Methylphenol	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
2-Nitroaniline	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
2-Nitrophenol	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
3-Nitroaniline	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
4-Methylphenol	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
4-Nitroaniline	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
4-Nitrophenol	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
Acenaphthene	ND	10		µg/L	1	4/23/2004 9:28:00 PM	
Acenaphthylene	ND	10		µg/L	1	4/23/2004 9:28:00 PM	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analytic detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-03

Client Sample ID: NCL-34
Collection Date: 4/13/2004 3:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Aniline	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Anthracene	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Benzidine	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Hexachloroethane	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Isophorone	ND	10		µg/L	1	4/23/2004 9:28:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/23/2004 9:28:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/23/2004 9:28:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Naphthalene	18	10		µg/L	1	4/23/2004 9:28:00 PM
Nitrobenzene	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Pentachlorophenol	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Phenanthrene	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Phenol	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Pyrene	ND	10		µg/L	1	4/23/2004 9:28:00 PM
Surr: 2,4,6-Tribromophenol	103	39-153		%REC	1	4/23/2004 9:28:00 PM
Surr: 2-Fluorobiphenyl	87.2	40-147		%REC	1	4/23/2004 9:28:00 PM
Surr: 2-Fluorophenol	38.4	21-110		%REC	1	4/23/2004 9:28:00 PM
Surr: 4-Terphenyl-d14	93.3	39-141		%REC	1	4/23/2004 9:28:00 PM
Surr: Nitrobenzene-d5	82.1	37-140		%REC	1	4/23/2004 9:28:00 PM
Surr: Phenol-d6	21.8	11-100		%REC	1	4/23/2004 9:28:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	4/26/2004 6:24:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	4/26/2004 6:24:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	4/26/2004 6:24:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	4/26/2004 6:24:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	4/26/2004 6:24:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	4/26/2004 6:24:00 PM
2-Butanone	ND	10	µg/L	4/26/2004 6:24:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	4/26/2004 6:24:00 PM
2-Hexanone	ND	10	µg/L	4/26/2004 6:24:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	4/26/2004 6:24:00 PM
Acetone	ND	10	µg/L	4/26/2004 6:24:00 PM
Benzene	1,400	50	µg/L	4/27/2004 10:32:00 AM
Bromodichloromethane	ND	5.0	µg/L	4/26/2004 6:24:00 PM
Bromoform	ND	5.0	µg/L	4/26/2004 6:24:00 PM
Bromomethane	ND	5.0	µg/L	4/26/2004 6:24:00 PM
Carbon disulfide	ND	10	µg/L	4/26/2004 6:24:00 PM
Carbon tetrachloride	ND	5.0	µg/L	4/26/2004 6:24:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL
Lab ID: 0404140-03

Client Sample ID: NCL-34
Collection Date: 4/13/2004 3:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chlorobenzene	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Chloroethane	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Chloroform	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Chloromethane	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Ethylbenzene	230	50		µg/L	10	4/27/2004 10:32:00 AM
m,p-Xylene	130	10		µg/L	1	4/26/2004 6:24:00 PM
Methylene chloride	ND	10		µg/L	1	4/26/2004 6:24:00 PM
Styrene	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Toluene	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/26/2004 6:24:00 PM
Vinyl acetate	ND	10		µg/L	1	4/26/2004 6:24:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/26/2004 6:24:00 PM
Xylenes, Total	130	15		µg/L	1	4/26/2004 6:24:00 PM
Surr: 1,2-Dichloroethane-d4	85.5	71-126		%REC	1	4/26/2004 6:24:00 PM
Surr: 1,2-Dichloroethane-d4	84.3	71-126		%REC	10	4/27/2004 10:32:00 AM
Surr: 4-Bromofluorobenzene	97.9	74-125		%REC	1	4/26/2004 6:24:00 PM
Surr: 4-Bromofluorobenzene	91.8	74-125		%REC	10	4/27/2004 10:32:00 AM
Surr: Dibromofluoromethane	85.1	73-126		%REC	10	4/27/2004 10:32:00 AM
Surr: Dibromofluoromethane	83.9	73-126		%REC	1	4/26/2004 6:24:00 PM
Surr: Toluene-d8	103	75-125		%REC	1	4/26/2004 6:24:00 PM
Surr: Toluene-d8	103	75-125		%REC	10	4/27/2004 10:32:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	324	5.00	mg/L	10	4/17/2004 2:24:00 AM
Fluoride	1.32	0.100	mg/L	1	4/15/2004 6:34:00 PM
Sulfate	181	10.0	mg/L	10	4/17/2004 2:24:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/15/2004 6:34:00 PM
Surr: Dichloroacetic acid (surr)	95.0	80-120	%REC	1	4/15/2004 6:34:00 PM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	10	4/17/2004 2:24:00 AM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	637	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	637	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Apr 28 2004

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8685 InstrumentID: ICP4500

MBLK	Sample ID: MBLKW1-041904	Test Code: SW6020		Units: mg/L		Analysis Date: 04/20/04 16:10		
Client ID:		Run ID:	ICP4500_040420A	SeqNo:	458717	Prep Date:	4/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	0.006197		0.010					J
Arsenic	ND		0.0050					
Barium	ND		0.0050					
Beryllium	ND		0.0020					
Boron	ND		0.020					
Cadmium	ND		0.0020					
Calcium	ND		0.50					
Chromium	ND		0.0050					
Cobalt	ND		0.0050					
Copper	ND		0.0050					
Iron	ND		0.20					
Lead	ND		0.0050					
Magnesium	ND		0.20					
Manganese	ND		0.0050					
Molybdenum	ND		0.0050					
Nickel	ND		0.0050					
Potassium	ND		0.20					
Selenium	ND		0.0050					
Silver	ND		0.0050					
Sodium	ND		0.20					
Vanadium	ND		0.0050					
Zinc	ND		0.0050					

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8685 InstrumentID: ICP4500

LCS	Sample ID: MLCSW1-041904	Test Code: SW6020		Units: mg/L		Analysis Date: 04/20/04 16:15				
Client ID:	Run ID: ICP4500_040420A	SeqNo:	458718	Prep Date: 4/19/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.05912	0.010	0.05	0	118	79-126		0		
Arsenic	0.0477	0.0050	0.05	0	95.4	80-121		0		
Barium	0.04706	0.0050	0.05	0	94.1	79.8-119		0		
Beryllium	0.0488	0.0020	0.05	0	97.6	78.9-120		0		
Boron	0.528	0.020	0.5	0	106	80-120		0		
Cadmium	0.04981	0.0020	0.05	0	99.6	79.1-119		0		
Calcium	5.068	0.50	5	0	101	80-121		0		
Chromium	0.04742	0.0050	0.05	0	94.8	79.3-121		0		
Cobalt	0.04818	0.0050	0.05	0	96.4	82-121		0		
Copper	0.04732	0.0050	0.05	0	94.6	83-121		0		
Iron	5.109	0.20	5	0	102	80-120		0		
Lead	0.04579	0.0050	0.05	0	91.6	80-118		0		
Magnesium	5.227	0.20	5	0	105	80-120		0		
Manganese	0.0482	0.0050	0.05	0	96.4	82-119		0		
Molybdenum	0.04544	0.0050	0.05	0	90.9	84.6-115		0		
Nickel	0.04786	0.0050	0.05	0	95.7	85-120		0		
Potassium	4.999	0.20	5	0	100	80-120		0		
Selenium	0.04711	0.0050	0.05	0	94.2	79.2-118		0		
Silver	0.04784	0.0050	0.05	0	95.7	83-117		0		
Sodium	5.087	0.20	5	0	102	82.4-120		0		
Vanadium	0.04748	0.0050	0.05	0	95	82.1-119		0		
Zinc	0.04832	0.0050	0.05	0	96.6	83-118		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **8685** InstrumentID: **ICP4500**

MS	Sample ID: 0404182-07CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 04/20/04 17:47			
Client ID:	Run ID: ICP4500_040420A	SeqNo:	458736	Prep Date: 4/19/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.06962	0.010	0.05	0.0251	89	79-126		0		
Arsenic	0.04743	0.0050	0.05	0	94.9	80-121		0		
Barium	0.04766	0.0050	0.05	0	95.3	79.8-119		0		
Beryllium	0.05087	0.0020	0.05	0	102	78.9-120		0		
Boron	0.5511	0.020	0.5	0.01989	106	80-120		0		
Cadmium	0.04894	0.0020	0.05	0	97.9	79.1-119		0		
Calcium	5.296	0.50	5	0.1571	103	80-121		0		
Chromium	0.04802	0.0050	0.05	0.0008466	94.3	79.3-121		0		
Cobalt	0.0485	0.0050	0.05	0	97	82-121		0		
Copper	0.0467	0.0050	0.05	0.0005075	92.4	83-121		0		
Iron	5.118	0.20	5	0.09651	100	80-120		0		
Lead	0.04549	0.0050	0.05	0	91	80-118		0		
Manganese	0.04864	0.0050	0.05	0.001041	95.2	82-119		0		
Nickel	0.04871	0.0050	0.05	0	97.4	85-120		0		
Potassium	5.162	0.20	5	0.03161	103	80-120		0		
Selenium	0.04315	0.0050	0.05	0	86.3	79.2-118		0		
Silver	0.04756	0.0050	0.05	0	95.1	83-117		0		
Sodium	5.389	0.20	5	0.1689	104	82.4-120		0		
Vanadium	0.04747	0.0050	0.05	0	94.9	82.1-119		0		
Zinc	0.04672	0.0050	0.05	0.001622	90.2	83-118		0		

MS	Sample ID: 0404182-07CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 04/21/04 15:31			
Client ID:	Run ID: ICP4500_040421A	SeqNo:	459340	Prep Date: 4/19/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	5.212	0.20	5	0.0352	104	80-120		0		
Molybdenum	0.04458	0.0050	0.05	0.0003097	88.5	84.6-115		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8685 InstrumentID: ICP4500

MSD	Sample ID: 0404182-07CMSD	Test Code: SW6020			Units: mg/L		Analysis Date: 04/20/04 17:52			
Client ID:		Run ID:	ICP4500_040420A	SeqNo:	458737	Prep Date:	4/19/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.06991	0.010	0.05	0.0251	89.6	79-126	0.06962	0.416	15	
Arsenic	0.04719	0.0050	0.05	0	94.4	80-121	0.04743	0.507	15	
Barium	0.04732	0.0050	0.05	0	94.6	79.8-119	0.04766	0.716	15	
Beryllium	0.04799	0.0020	0.05	0	96	78.9-120	0.05087	5.83	15	
Boron	0.5379	0.020	0.5	0.01989	104	80-120	0.5511	2.42	15	
Cadmium	0.04873	0.0020	0.05	0	97.5	79.1-119	0.04894	0.43	15	
Calcium	5.233	0.50	5	0.1571	102	80-121	5.296	1.2	15	
Chromium	0.04742	0.0050	0.05	0.0008466	93.1	79.3-121	0.04802	1.26	15	
Cobalt	0.04795	0.0050	0.05	0	95.9	82-121	0.0485	1.14	15	
Copper	0.0464	0.0050	0.05	0.0005075	91.8	83-121	0.0467	0.644	15	
Iron	5.136	0.20	5	0.09651	101	80-120	5.118	0.351	15	
Lead	0.04553	0.0050	0.05	0	91.1	80-118	0.04549	0.0879	15	
Manganese	0.04934	0.0050	0.05	0.001041	96.6	82-119	0.04864	1.43	15	
Nickel	0.04856	0.0050	0.05	0	97.1	85-120	0.04871	0.308	15	
Potassium	5.029	0.20	5	0.03161	99.9	80-120	5.162	2.61	15	
Selenium	0.04338	0.0050	0.05	0	86.8	79.2-118	0.04315	0.532	15	
Silver	0.04786	0.0050	0.05	0	95.7	83-117	0.04756	0.629	15	
Sodium	5.47	0.20	5	0.1689	106	82.4-120	5.389	1.49	15	
Vanadium	0.04709	0.0050	0.05	0	94.2	82.1-119	0.04747	0.804	15	
Zinc	0.04683	0.0050	0.05	0.001622	90.4	83-118	0.04672	0.235	15	

MSD	Sample ID: 0404182-07CMSD	Test Code: SW6020			Units: mg/L		Analysis Date: 04/21/04 15:36			
Client ID:		Run ID:	ICP4500_040421A	SeqNo:	459341	Prep Date:	4/19/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	5.15	0.20	5	0.0352	102	80-120	5.212	1.2	15	
Molybdenum	0.04549	0.0050	0.05	0.0003097	90.4	84.6-115	0.04458	2.02	15	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **8685** InstrumentID: **ICP4500**

DUP	Sample ID: 0404182-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 04/20/04 17:43				
Client ID:	Run ID: ICP4500_040420A	SeqNo:	458735	Prep Date: 4/19/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.01993	0.010	0	0	0	0-0	0.0251	23	25	
Arsenic	ND	0.0050	0	0	0	0-0	0.0008186	0	25	
Barium	ND	0.0050	0	0	0	0-0	0.0005035	0	25	
Beryllium	ND	0.0020	0	0	0	0-0	0.00003403	0	25	
Boron	0.01134	0.020	0	0	0	0-0	0.01989	0	25	J
Cadmium	ND	0.0020	0	0	0	0-0	0.00003854	0	25	
Calcium	0.1341	0.50	0	0	0	0-0	0.1571	0	25	J
Chromium	0.0005101	0.0050	0	0	0	0-0	0.0008466	0	25	J
Cobalt	ND	0.0050	0	0	0	0-0	0.00006778	0	25	
Copper	0.0004539	0.0050	0	0	0	0-0	0.0005075	0	25	J
Iron	0.06511	0.20	0	0	0	0-0	0.09651	0	25	J
Lead	ND	0.0050	0	0	0	0-0	0.00009129	0	25	
Manganese	ND	0.0050	0	0	0	0-0	0.001041	0	25	
Nickel	ND	0.0050	0	0	0	0-0	0.0002571	0	25	
Potassium	0.02571	0.20	0	0	0	0-0	0.03161	0	25	J
Selenium	ND	0.0050	0	0	0	0-0	-0.0001496	0	25	
Silver	ND	0.0050	0	0	0	0-0	0.0000283	0	25	
Sodium	0.1637	0.20	0	0	0	0-0	0.1689	0	25	J
Vanadium	ND	0.0050	0	0	0	0-0	0.000009401	0	25	
Zinc	ND	0.0050	0	0	0	0-0	0.001622	0	25	

DUP	Sample ID: 0404182-07CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 04/21/04 15:27				
Client ID:	Run ID: ICP4500_040421A	SeqNo:	459339	Prep Date: 4/19/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Magnesium	ND	0.20	0	0	0	0-0	0.0352	0	25	
Molybdenum	ND	0.0050	0	0	0	0-0	0.0003097	0	25	

The following samples were analyzed in this batch:

0404140-01C 0404140-02C 0404140-03C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **8655** InstrumentID: **SV-3**

MBLK	Sample ID: SBLKW1-040415	Test Code: SW8270		Units: µg/L		Analysis Date: 04/16/04 18:28			
Client ID:	Run ID: SV-3_040416A	SeqNo:	457880	Prep Date: 4/15/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3-Nitroaniline	ND	10							
4-Methylphenol	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	96.59	0	100	0	96.6	39-153	0		
Surr: 2-Fluorobiphenyl	81.06	0	100	0	81.1	40-147	0		
Surr: 2-Fluorophenol	50.6	0	100	0	50.6	21-110	0		
Surr: 4-Terphenyl-d14	91.4	0	100	0	91.4	39-141	0		
Surr: Nitrobenzene-d5	80.7	0	100	0	80.7	37-140	0		
Surr: Phenol-d6	32.92	0	100	0	32.9	11-100	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8713		InstrumentID: Mercury							
MBLK	Sample ID: GBLKW1-042004		Test Code: SW7470		Units: mg/L		Analysis Date: 04/22/04 14:48		
Client ID:		Run ID:	MERCURY_040422A	SeqNo:	459866	Prep Date: 4/20/2004	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		ND	0.00020						
LCS	Sample ID: GLCSW1-042004		Test Code: SW7470		Units: mg/L		Analysis Date: 04/22/04 15:10		
Client ID:		Run ID:	MERCURY_040422A	SeqNo:	459867	Prep Date: 4/20/2004	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00474	0.00020	0.005	0	94.8	83-115	0	
LCSD	Sample ID: GLCSDW1-042004		Test Code: SW7470		Units: mg/L		Analysis Date: 04/22/04 15:11		
Client ID:		Run ID:	MERCURY_040422A	SeqNo:	459868	Prep Date: 4/20/2004	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00476	0.00020	0.005	0	95.2	83-115	0.00474	0.421 20
MS	Sample ID: 0404211-02AMS		Test Code: SW7470		Units: mg/L		Analysis Date: 04/22/04 15:16		
Client ID:		Run ID:	MERCURY_040422A	SeqNo:	459871	Prep Date: 4/20/2004	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00551	0.00020	0.005	0.000021	110	83-115	0	
MSD	Sample ID: 0404211-02AMSD		Test Code: SW7470		Units: mg/L		Analysis Date: 04/22/04 15:17		
Client ID:		Run ID:	MERCURY_040422A	SeqNo:	459872	Prep Date: 4/20/2004	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00549	0.00020	0.005	0.000021	109	83-115	0.00551	0.364 20
DUP	Sample ID: 0404211-02ADUP		Test Code: SW7470		Units: mg/L		Analysis Date: 04/22/04 15:14		
Client ID:		Run ID:	MERCURY_040422A	SeqNo:	459870	Prep Date: 4/20/2004	DF: 1		
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		ND	0.00020	0	0	0	0-0	0.000021	0 20

The following samples were analyzed in this batch:

0404140-01C	0404140-02C	0404140-03C
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ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **8655** InstrumentID: **SV-3**

LCS	Sample ID: SLCSW1-040415	Test Code: SW8270		Units: µg/L		Analysis Date: 04/16/04 18:56		
Client ID:	Run ID: SV-3_040416A	SeqNo:	457881	Prep Date: 4/15/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	47.7	10	50	0	95.4	50-115	0	
2,4,5-Trichlorophenol	102	10	100	0	102	68-128	0	
2,4,6-Trichlorophenol	98.08	10	100	0	98.1	66-125	0	
2-Methylnaphthalene	48.04	10	50	0	96.1	47-122	0	
2-Methylphenol	93.33	10	100	0	93.3	51-115	0	
2-Nitroaniline	51.39	10	50	0	103	64-128	0	
2-Nitrophenol	95.15	10	100	0	95.1	60-119	0	
3-Nitroaniline	44.41	10	50	0	88.8	61-118	0	
4-Methylphenol	128.1	10	150	0	85.4	44-115	0	
4-Nitroaniline	49.26	10	50	0	98.5	61-123	0	
4-Nitrophenol	69.84	10	100	0	69.8	17-100	0	
Acenaphthene	56.9	10	50	0	114	68-115	0	
Acenaphthylene	49.5	10	50	0	99	67-116	0	
Aniline	39.6	10	50	0	79.2	40-130	0	
Anthracene	51.9	10	50	0	104	70-129	0	
Benz(a)anthracene	49.71	10	50	0	99.4	55-131	0	
Benzidine	29.38	10	50	0	58.8	10-115	0	
Hexachloroethane	47.51	10	50	0	95	46-115	0	
Indeno(1,2,3-cd)pyrene	49.17	10	50	0	98.3	42-123	0	
Isophorone	50	10	50	0	100	63-117	0	
N-Nitrosodi-n-propylamine	49.7	10	50	0	99.4	67-115	0	
N-Nitrosodimethylamine	28.12	10	50	0	56.2	28-115	0	
N-Nitrosodiphenylamine	55.73	10	50	0	111	72-144	0	
Naphthalene	48.43	10	50	0	96.9	52-115	0	
Nitrobenzene	48.17	10	50	0	96.3	65-115	0	
Pentachlorophenol	99.11	10	100	0	99.1	65-123	0	
Phenanthrene	49.55	10	50	0	99.1	69-119	0	
Phenol	56.22	10	100	0	56.2	16-115	0	
Pyrene	51.18	10	50	0	102	51-130	0	
Surr: 2,4,6-Tribromophenol	99.03	0	100	0	99	39-153	0	
Surr: 2-Fluorobiphenyl	85.47	0	100	0	85.5	40-147	0	
Surr: 2-Fluorophenol	70.99	0	100	0	71	21-110	0	
Surr: 4-Terphenyl-d14	92.79	0	100	0	92.8	39-141	0	
Surr: Nitrobenzene-d5	87.36	0	100	0	87.4	37-140	0	
Surr: Phenol-d6	52	0	100	0	52	11-100	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **8655** InstrumentID: **SV-3**

LCSD	Sample ID: SLCSDW1-040415	Test Code: SW8270		Units: µg/L		Analysis Date: 04/16/04 19:24				
Client ID:	Run ID: SV-3_040416A	SeqNo:	457882	Prep Date: 4/15/2004	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	46.62	10	50	0	93.2	50-115	47.7	2.28	30	
2,4,5-Trichlorophenol	99.14	10	100	0	99.1	68-128	102	2.84	30	
2,4,6-Trichlorophenol	95.05	10	100	0	95	66-125	98.08	3.14	30	
2-Methylnaphthalene	47.12	10	50	0	94.2	47-122	48.04	1.93	30	
2-Methylphenol	89.11	10	100	0	89.1	51-115	93.33	4.63	30	
2-Nitroaniline	49.81	10	50	0	99.6	64-128	51.39	3.12	30	
2-Nitrophenol	92.84	10	100	0	92.8	60-119	95.15	2.46	30	
3-Nitroaniline	39.87	10	50	0	79.7	61-118	44.41	10.8	30	
4-Methylphenol	124.9	10	150	0	83.3	44-115	128.1	2.52	30	
4-Nitroaniline	47.61	10	50	0	95.2	61-123	49.26	3.4	30	
4-Nitrophenol	71.6	10	100	0	71.6	17-100	69.84	2.5	30	
Acenaphthene	55.73	10	50	0	111	68-115	56.9	2.07	30	
Acenaphthylene	47.88	10	50	0	95.8	67-116	49.5	3.32	30	
Aniline	29.21	10	50	0	58.4	40-130	39.6	30.2	30	R
Anthracene	51.48	10	50	0	103	70-129	51.9	0.804	30	
Benz(a)anthracene	49.7	10	50	0	99.4	55-131	49.71	0.0323	30	
Benzidine	16.18	10	50	0	32.4	10-115	29.38	58	30	R
Hexachloroethane	47.19	10	50	0	94.4	46-115	47.51	0.686	30	
Indeno(1,2,3-cd)pyrene	48.32	10	50	0	96.6	42-123	49.17	1.74	30	
Isophorone	48.52	10	50	0	97	63-117	50	3	30	
N-Nitrosodi-n-propylamine	46.29	10	50	0	92.6	67-115	49.7	7.11	30	
N-Nitrosodimethylamine	28.51	10	50	0	57	28-115	28.12	1.39	30	
N-Nitrosodiphenylamine	54.85	10	50	0	110	72-144	55.73	1.6	30	
Naphthalene	47.59	10	50	0	95.2	52-115	48.43	1.74	30	
Nitrobenzene	47.45	10	50	0	94.9	65-115	48.17	1.5	30	
Pentachlorophenol	97.21	10	100	0	97.2	65-123	99.11	1.94	30	
Phenanthrene	49.4	10	50	0	98.8	69-119	49.55	0.296	30	
Phenol	55.82	10	100	0	55.8	16-115	56.22	0.72	30	
Pyrene	49.13	10	50	0	98.3	51-130	51.18	4.08	30	
Surr: 2,4,6-Tribromophenol	96.85	0	100	0	96.9	39-153	99.03	2.22	30	
Surr: 2-Fluorobiphenyl	84.51	0	100	0	84.5	40-147	85.47	1.12	30	
Surr: 2-Fluorophenol	70.36	0	100	0	70.4	21-110	70.99	0.887	30	
Surr: 4-Terphenyl-d14	89.69	0	100	0	89.7	39-141	92.79	3.39	30	
Surr: Nitrobenzene-d5	86.39	0	100	0	86.4	37-140	87.36	1.12	30	
Surr: Phenol-d6	51.76	0	100	0	51.8	11-100	52	0.46	30	

The following samples were analyzed in this batch:

0404140-01E

0404140-02E

0404140-03E

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20118 InstrumentID: VOA_I

MBLK	Sample ID: VBLKW-0426	Test Code: SW8260		Units: µg/L		Analysis Date: 04/26/04 16:10				
Client ID:		Run ID:	VOA_I_040426A	SeqNo:	461696	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	43.15	5.0	50	0	86.3	71-126		0		
Surr: 4-Bromofluorobenzene	41.57	5.0	50	0	83.1	74-125		0		
Surr: Dibromofluoromethane	44.88	5.0	50	0	89.8	73-126		0		
Surr: Toluene-d8	48.66	5.0	50	0	97.3	75-125		0		

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O - Referenced analyte value is > 4 times amount spiked

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20118 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-0426	Test Code: SW8260		Units: µg/L		Analysis Date: 04/26/04 15:43		
Client ID:		Run ID:	VOA_I_040426A	SeqNo:	461695	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	49.86	5.0	50	0	99.7	75.2-120	0	
1,1,2,2-Tetrachloroethane	50.86	5.0	50	0	102	72.4-121	0	
1,1,2-Trichloroethane	52.15	5.0	50	0	104	80-120	0	
1,1-Dichloroethane	49.93	5.0	50	0	99.9	76.9-120	0	
1,1-Dichloroethene	49.39	5.0	50	0	98.8	72.6-123	0	
1,2-Dichloroethane	50.49	5.0	50	0	101	80-120	0	
2-Butanone	99.63	10	100	0	99.6	69-131	0	
2-Chloroethyl vinyl ether	99.8	10	100	0	99.8	60-135	0	
2-Hexanone	97.97	10	100	0	98	55.6-126	0	
4-Methyl-2-pentanone	97.33	10	100	0	97.3	67.4-121	0	
Acetone	99.72	10	100	0	99.7	64.4-140	0	
Benzene	54.77	5.0	50	0	110	80-120	0	
Bromodichloromethane	51.45	5.0	50	0	103	80-120	0	
Bromoform	52.72	5.0	50	0	105	77.9-121	0	
Bromomethane	52.18	5.0	50	0	104	63.3-137	0	
Carbon disulfide	97.47	10	100	0	97.5	74.1-123	0	
Carbon tetrachloride	49.18	5.0	50	0	98.4	74.7-120	0	
Chlorobenzene	52.56	5.0	50	0	105	80-120	0	
Chloroethane	49.06	5.0	50	0	98.1	74.7-126	0	
Chloroform	49.98	5.0	50	0	100	80-120	0	
Chloromethane	52.35	5.0	50	0	105	64.5-132	0	
cis-1,3-Dichloropropene	51.16	5.0	50	0	102	80-120	0	
Dibromochloromethane	52.1	5.0	50	0	104	80-120	0	
Ethylbenzene	51.56	5.0	50	0	103	80-120	0	
m,p-Xylene	109	10	100	0	109	80-120	0	
Methylene chloride	49.11	10	50	0	98.2	76.2-120	0	
Styrene	52.36	5.0	50	0	105	80-120	0	
Tetrachloroethene	52.55	5.0	50	0	105	68.5-130	0	
Toluene	56.67	5.0	50	0	113	80-120	0	
trans-1,3-Dichloropropene	52.02	5.0	50	0	104	80-120	0	
Trichloroethene	53.22	5.0	50	0	106	78.9-120	0	
Vinyl acetate	103.3	10	100	0	103	62.4-133	0	
Vinyl chloride	52.37	2.0	50	0	105	72.7-128	0	
Xylenes, Total	161.3	15	150	0	108	80-120	0	
Surr: 1,2-Dichloroethane-d4	44.07	5.0	50	0	88.1	71-126	0	
Surr: 4-Bromofluorobenzene	48.33	5.0	50	0	96.7	74-125	0	
Surr: Dibromofluoromethane	46.93	5.0	50	0	93.9	73-126	0	
Surr: Toluene-d8	51.73	5.0	50	0	103	75-125	0	

ND - Not Detected at the Reporting Limit

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J - Analyte detected below quantitation limits

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U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

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CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20118 InstrumentID: VOA_I

MS	Sample ID: 0404140-01AMS			Test Code: SW8260	Units: µg/L		Analysis Date: 04/26/04 17:04			
Client ID:	MW-60	Run ID: VOA_I_040426A		SeqNo:	461698	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	46.99	5.0	50	0	94	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	55.71	5.0	50	0	111	72.4-121	0	0		
1,1,2-Trichloroethane	56.18	5.0	50	0	112	80-120	0	0		
1,1-Dichloroethane	50.64	5.0	50	0	101	76.9-120	0	0		
1,1-Dichloroethene	45.53	5.0	50	0	91.1	72.6-123	0	0		
1,2-Dichloroethane	56.23	5.0	50	0	112	80-120	0	0		
2-Butanone	113.1	10	100	0	113	69-131	0	0		
2-Chloroethyl vinyl ether	29.77	10	100	0	29.8	60-135	0	0		S
2-Hexanone	103.6	10	100	0	104	55.6-126	0	0		
4-Methyl-2-pentanone	107.3	10	100	0	107	67.4-121	0	0		
Acetone	122.7	10	100	0	123	64.4-140	0	0		
Benzene	68.48	5.0	50	13.29	110	80-120	0	0		
Bromodichloromethane	54.16	5.0	50	0	108	80-120	0	0		
Bromoform	57.02	5.0	50	0	114	77.9-121	0	0		
Bromomethane	48.3	5.0	50	0	96.6	63.3-137	0	0		
Carbon disulfide	92.16	10	100	0	92.2	74.1-123	0	0		
Carbon tetrachloride	44.33	5.0	50	0	88.7	74.7-120	0	0		
Chlorobenzene	52.92	5.0	50	0	106	80-120	0	0		
Chloroethane	49.87	5.0	50	0	99.7	74.7-126	0	0		
Chloroform	52.4	5.0	50	0	105	80-120	0	0		
Chloromethane	40.76	5.0	50	0	81.5	64.5-132	0	0		
cis-1,3-Dichloropropene	53.59	5.0	50	0	107	80-120	0	0		
Dibromochloromethane	56.69	5.0	50	0	113	80-120	0	0		
Ethylbenzene	53.81	5.0	50	5.363	96.9	80-120	0	0		
m,p-Xylene	108	10	100	0	108	80-120	0	0		
Methylene chloride	51.99	10	50	0	104	76.2-120	0	0		
Styrene	53.04	5.0	50	0	106	80-120	0	0		
Tetrachloroethene	47.56	5.0	50	0	95.1	68.5-130	0	0		
Toluene	57.7	5.0	50	0	115	80-120	0	0		
trans-1,3-Dichloropropene	54.22	5.0	50	0	108	80-120	0	0		
Trichloroethene	51.82	5.0	50	0	104	78.9-120	0	0		
Vinyl acetate	115.6	10	100	0	116	62.4-133	0	0		
Vinyl chloride	46.65	2.0	50	0	93.3	72.7-128	0	0		
Xylenes, Total	159.4	15	150	0	106	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	45.28	5.0	50	0	90.6	71-126	0	0		
Surr: 4-Bromofluorobenzene	46.72	5.0	50	0	93.4	74-125	0	0		
Surr: Dibromofluoromethane	45.67	5.0	50	0	91.3	73-126	0	0		
Surr: Toluene-d8	49.6	5.0	50	0	99.2	75-125	0	0		

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CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20118 InstrumentID: VOA_I

MSD	Sample ID: 0404140-01AMSD			Test Code: SW8260		Units: µg/L		Analysis Date: 04/26/04 17:31		
Client ID:	MW-60	Run ID: VOA_I_040426A		SeqNo:	461699	Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	47.61	5.0	50	0	95.2	75.2-120	46.99	1.3	20	
1,1,2,2-Tetrachloroethane	58.66	5.0	50	0	117	72.4-121	55.71	5.15	20	
1,1,2-Trichloroethane	57.07	5.0	50	0	114	80-120	56.18	1.57	20	
1,1-Dichloroethane	52.15	5.0	50	0	104	76.9-120	50.64	2.93	20	
1,1-Dichloroethene	47.56	5.0	50	0	95.1	72.6-123	45.53	4.37	20	
1,2-Dichloroethane	56.12	5.0	50	0	112	80-120	56.23	0.194	20	
2-Butanone	123.6	10	100	0	124	69-131	113.1	8.82	20	
2-Chloroethyl vinyl ether	23.17	10	100	0	23.2	60-135	29.77	25	20	SR
2-Hexanone	117.7	10	100	0	118	55.6-126	103.6	12.7	20	
4-Methyl-2-pentanone	113.2	10	100	0	113	67.4-121	107.3	5.34	20	
Acetone	121	10	100	0	121	64.4-140	122.7	1.35	20	
Benzene	76.21	5.0	50	13.29	126	80-120	68.48	10.7	20	S
Bromodichloromethane	55.67	5.0	50	0	111	80-120	54.16	2.76	20	
Bromoform	58	5.0	50	0	116	77.9-121	57.02	1.7	20	
Bromomethane	52.67	5.0	50	0	105	63.3-137	48.3	8.66	20	
Carbon disulfide	97.42	10	100	0	97.4	74.1-123	92.16	5.55	20	
Carbon tetrachloride	48.19	5.0	50	0	96.4	74.7-120	44.33	8.33	20	
Chlorobenzene	54.6	5.0	50	0	109	80-120	52.92	3.12	20	
Chloroethane	48.51	5.0	50	0	97	74.7-126	49.87	2.77	20	
Chloroform	51.44	5.0	50	0	103	80-120	52.4	1.86	20	
Chloromethane	39.8	5.0	50	0	79.6	64.5-132	40.76	2.39	20	
cis-1,3-Dichloropropene	54.6	5.0	50	0	109	80-120	53.59	1.87	20	
Dibromochloromethane	57.63	5.0	50	0	115	80-120	56.69	1.66	20	
Ethylbenzene	59.41	5.0	50	5.363	108	80-120	53.81	9.89	20	
m,p-Xylene	113.6	10	100	0	114	80-120	108	5.11	20	
Methylene chloride	51.27	10	50	0	103	76.2-120	51.99	1.39	20	
Styrene	53.78	5.0	50	0	108	80-120	53.04	1.38	20	
Tetrachloroethene	51.92	5.0	50	0	104	68.5-130	47.56	8.76	20	
Toluene	58.21	5.0	50	0	116	80-120	57.7	0.887	20	
trans-1,3-Dichloropropene	55.32	5.0	50	0	111	80-120	54.22	2.02	20	
Trichloroethene	54.68	5.0	50	0	109	78.9-120	51.82	5.36	20	
Vinyl acetate	122.1	10	100	0	122	62.4-133	115.6	5.48	20	
Vinyl chloride	49.69	2.0	50	0	99.4	72.7-128	46.65	6.32	20	
Xylenes, Total	166.7	15	150	0	111	80-120	159.4	4.5	20	
Surr: 1,2-Dichloroethane-d4	44.05	5.0	50	0	88.1	71-126	45.28	2.75	20	
Surr: 4-Bromofluorobenzene	46.87	5.0	50	0	93.7	74-125	46.72	0.319	20	
Surr: Dibromofluoromethane	44.77	5.0	50	0	89.5	73-126	45.67	1.99	20	
Surr: Toluene-d8	48.96	5.0	50	0	97.9	75-125	49.6	1.31	20	

The following samples were analyzed in this batch:

0404140-01A 0404140-02A 0404140-03A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20122 InstrumentID: VOA_I

Mblk	Sample ID: VBLKW-0426	Test Code: SW8260		Units: µg/L		Analysis Date: 04/27/04 0:39		
Client ID:	Run ID: VOA_I_040426B	SeqNo:	461896	Prep Date:	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	45.61	5.0	50	0	91.2	71-126	0	
Surr: 4-Bromofluorobenzene	42.33	5.0	50	0	84.7	74-125	0	
Surr: Dibromofluoromethane	46	5.0	50	0	92	73-126	0	
Surr: Toluene-d8	48.78	5.0	50	0	97.6	75-125	0	

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20122 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-0426	Test Code: SW8260		Units: µg/L		Analysis Date: 04/27/04 0:12		
Client ID:		Run ID:	VOA_I_040426B	SeqNo:	461895	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	49.12	5.0	50	0	98.2	75.2-120	0	
1,1,2,2-Tetrachloroethane	46.19	5.0	50	0	92.4	72.4-121	0	
1,1,2-Trichloroethane	46.23	5.0	50	0	92.5	80-120	0	
1,1-Dichloroethane	48.75	5.0	50	0	97.5	76.9-120	0	
1,1-Dichloroethene	49.49	5.0	50	0	99	72.6-123	0	
1,2-Dichloroethane	52.59	5.0	50	0	105	80-120	0	
2-Butanone	95.12	10	100	0	95.1	69-131	0	
2-Chloroethyl vinyl ether	95.25	10	100	0	95.2	60-135	0	
2-Hexanone	93.48	10	100	0	93.5	55.6-126	0	
4-Methyl-2-pentanone	88.74	10	100	0	88.7	67.4-121	0	
Acetone	103.2	10	100	0	103	64.4-140	0	
Benzene	53.94	5.0	50	0	108	80-120	0	
Bromodichloromethane	52.12	5.0	50	0	104	80-120	0	
Bromoform	51.49	5.0	50	0	103	77.9-121	0	
Bromomethane	49.23	5.0	50	0	98.5	63.3-137	0	
Carbon disulfide	98.06	10	100	0	98.1	74.1-123	0	
Carbon tetrachloride	50.63	5.0	50	0	101	74.7-120	0	
Chlorobenzene	50.09	5.0	50	0	100	80-120	0	
Chloroethane	50.12	5.0	50	0	100	74.7-126	0	
Chloroform	49.72	5.0	50	0	99.4	80-120	0	
Chloromethane	46.58	5.0	50	0	93.2	64.5-132	0	
cis-1,3-Dichloropropene	49.2	5.0	50	0	98.4	80-120	0	
Dibromochloromethane	50.87	5.0	50	0	102	80-120	0	
Ethylbenzene	48.38	5.0	50	0	96.8	80-120	0	
m,p-Xylene	107.1	10	100	0	107	80-120	0	
Methylene chloride	48.09	10	50	0	96.2	76.2-120	0	
Styrene	49.78	5.0	50	0	99.6	80-120	0	
Tetrachloroethene	50.93	5.0	50	0	102	68.5-130	0	
Toluene	54.65	5.0	50	0	109	80-120	0	
trans-1,3-Dichloropropene	49.2	5.0	50	0	98.4	80-120	0	
Trichloroethene	54.37	5.0	50	0	109	78.9-120	0	
Vinyl acetate	77	10	100	0	77	62.4-133	0	
Vinyl chloride	53.02	2.0	50	0	106	72.7-128	0	
Xylenes, Total	156.7	15	150	0	104	80-120	0	
Surr: 1,2-Dichloroethane-d4	44.2	5.0	50	0	88.4	71-126	0	
Surr: 4-Bromofluorobenzene	48.01	5.0	50	0	96	74-125	0	
Surr: Dibromofluoromethane	45.58	5.0	50	0	91.2	73-126	0	
Surr: Toluene-d8	50.56	5.0	50	0	101	75-125	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20122 InstrumentID: VOA_I

MS	Sample ID: 0404148-01ZMS			Test Code: SW8260	Units: µg/L		Analysis Date: 04/27/04 2:00			
Client ID:		Run ID: VOA_I_040426B		SeqNo: 461898	Prep Date:		DF: 20			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1048	100	1000	0	105	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	990.2	100	1000	0	99	72.4-121	0	0		
1,1,2-Trichloroethane	1047	100	1000	0	105	80-120	0	0		
1,1-Dichloroethane	1024	100	1000	0	102	76.9-120	0	0		
1,1-Dichloroethene	1009	100	1000	0	101	72.6-123	0	0		
1,2-Dichloroethane	1116	100	1000	0	112	80-120	0	0		
2-Butanone	1957	200	2000	0	97.8	69-131	0	0		
2-Chloroethyl vinyl ether	1252	200	2000	0	62.6	60-135	0	0		
2-Hexanone	1837	200	2000	0	91.9	55.6-126	0	0		
4-Methyl-2-pentanone	1828	200	2000	0	91.4	67.4-121	0	0		
Acetone	1896	200	2000	0	94.8	64.4-140	0	0		
Benzene	1097	100	1000	0	110	80-120	0	0		
Bromodichloromethane	1114	100	1000	0	111	80-120	0	0		
Bromoform	1083	100	1000	0	108	77.9-121	0	0		
Bromomethane	984.3	100	1000	0	98.4	63.3-137	0	0		
Carbon disulfide	2061	200	2000	0	103	74.1-123	0	0		
Carbon tetrachloride	1053	100	1000	0	105	74.7-120	0	0		
Chlorobenzene	1074	100	1000	0	107	80-120	0	0		
Chloroethane	1065	100	1000	0	107	74.7-126	0	0		
Chloroform	1065	100	1000	0	107	80-120	0	0		
Chloromethane	1021	100	1000	0	102	64.5-132	0	0		
cis-1,3-Dichloropropene	989.9	100	1000	0	99	80-120	0	0		
Dibromochloromethane	1064	100	1000	0	106	80-120	0	0		
Ethylbenzene	1028	100	1000	0	103	80-120	0	0		
m,p-Xylene	2261	200	2000	0	113	80-120	0	0		
Methylene chloride	1076	200	1000	0	108	76.2-120	0	0		
Styrene	1067	100	1000	0	107	80-120	0	0		
Tetrachloroethene	1023	100	1000	0	102	68.5-130	0	0		
Toluene	1118	100	1000	0	112	80-120	0	0		
trans-1,3-Dichloropropene	982.1	100	1000	0	98.2	80-120	0	0		
Trichloroethene	1054	100	1000	0	105	78.9-120	0	0		
Vinyl acetate	2069	200	2000	0	103	62.4-133	0	0		
Vinyl chloride	1083	40	1000	0	108	72.7-128	0	0		
Xylenes, Total	3307	300	3000	0	110	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	964.4	100	1000	0	96.4	71-126	0	0		
Surr: 4-Bromofluorobenzene	980.2	100	1000	0	98	74-125	0	0		
Surr: Dibromofluoromethane	953.3	100	1000	0	95.3	73-126	0	0		
Surr: Toluene-d8	1031	100	1000	0	103	75-125	0	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20122 InstrumentID: VOA_I

MSD	Sample ID: 0404148-01ZMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 04/27/04 2:27			
Client ID:	Run ID: VOA_I_040426B	SeqNo:	461899	Prep Date:	DF: 20				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	1003	100	1000	0	100	75.2-120	1048	4.32	20
1,1,2,2-Tetrachloroethane	993	100	1000	0	99.3	72.4-121	990.2	0.283	20
1,1,2-Trichloroethane	1035	100	1000	0	104	80-120	1047	1.08	20
1,1-Dichloroethane	1040	100	1000	0	104	76.9-120	1024	1.56	20
1,1-Dichloroethene	955.6	100	1000	0	95.6	72.6-123	1009	5.48	20
1,2-Dichloroethane	1084	100	1000	0	108	80-120	1116	2.9	20
2-Butanone	1975	200	2000	0	98.8	69-131	1957	0.935	20
2-Chloroethyl vinyl ether	1217	200	2000	0	60.8	60-135	1252	2.9	20
2-Hexanone	1745	200	2000	0	87.3	55.6-126	1837	5.14	20
4-Methyl-2-pentanone	1805	200	2000	0	90.3	67.4-121	1828	1.24	20
Acetone	1940	200	2000	0	97	64.4-140	1896	2.27	20
Benzene	1086	100	1000	0	109	80-120	1097	0.996	20
Bromodichloromethane	1088	100	1000	0	109	80-120	1114	2.38	20
Bromoform	1059	100	1000	0	106	77.9-121	1083	2.18	20
Bromomethane	1041	100	1000	0	104	63.3-137	984.3	5.61	20
Carbon disulfide	1959	200	2000	0	97.9	74.1-123	2061	5.1	20
Carbon tetrachloride	950.3	100	1000	0	95	74.7-120	1053	10.3	20
Chlorobenzene	1057	100	1000	0	106	80-120	1074	1.6	20
Chloroethane	1023	100	1000	0	102	74.7-126	1065	4.02	20
Chloroform	1068	100	1000	0	107	80-120	1065	0.192	20
Chloromethane	1032	100	1000	0	103	64.5-132	1021	1.09	20
cis-1,3-Dichloropropene	997.9	100	1000	0	99.8	80-120	989.9	0.807	20
Dibromochloromethane	1064	100	1000	0	106	80-120	1064	0.0363	20
Ethylbenzene	995.4	100	1000	0	99.5	80-120	1028	3.22	20
m,p-Xylene	2185	200	2000	0	109	80-120	2261	3.41	20
Methylene chloride	1074	200	1000	0	107	76.2-120	1076	0.209	20
Styrene	1046	100	1000	0	105	80-120	1067	1.94	20
Tetrachloroethene	943.6	100	1000	0	94.4	68.5-130	1023	8.12	20
Toluene	1108	100	1000	0	111	80-120	1118	0.858	20
trans-1,3-Dichloropropene	995.3	100	1000	0	99.5	80-120	982.1	1.33	20
Trichloroethene	1025	100	1000	0	103	78.9-120	1054	2.81	20
Vinyl acetate	2129	200	2000	0	106	62.4-133	2069	2.84	20
Vinyl chloride	999.2	40	1000	0	99.9	72.7-128	1083	8.03	20
Xylenes, Total	3206	300	3000	0	107	80-120	3307	3.08	20
Surr: 1,2-Dichloroethane-d4	950.8	100	1000	0	95.1	71-126	964.4	1.42	20
Surr: 4-Bromofluorobenzene	959	100	1000	0	95.9	74-125	980.2	2.19	20
Surr: Dibromofluoromethane	953.1	100	1000	0	95.3	73-126	953.3	0.0256	20
Surr: Toluene-d8	1033	100	1000	0	103	75-125	1031	0.202	20

The following samples were analyzed in this batch:

0404140-03A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19930 InstrumentID: Wet Chemistry

MBLK Sample ID: WMBW1-041504		Test Code: E310.1		Units: mg/L		Analysis Date: 04/15/04 0:00		
Client ID: Run ID: WET CHEMISTRY_0404 SeqNo: 456584				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0						
Alkalinity, Carbonate (As CaCO3)	ND	5.0						
Alkalinity, Hydroxide (As CaCO3)	ND	5.0						
Alkalinity, Total (As CaCO3)	ND	5.0						

LCS Sample ID: WLCSW1-041504		Test Code: E310.1		Units: mg/L		Analysis Date: 04/15/04 0:00		
Client ID: Run ID: WET CHEMISTRY_0404 SeqNo: 456585				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Total (As CaCO3)	980.6	5.0	1000	0	98.1	80-120	0	

DUP Sample ID: 0404115-03BDUP		Test Code: E310.1		Units: mg/L		Analysis Date: 04/15/04 0:00		
Client ID: Run ID: WET CHEMISTRY_0404 SeqNo: 456596				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	323.6	5.0	0	0	0	0-0	323.6	0 20
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0 20
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0 20
Alkalinity, Total (As CaCO3)	323.6	5.0	0	0	0	0-0	323.6	0 20

The following samples were analyzed in this batch:

0404140-01B 0404140-02B 0404140-03B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19935 InstrumentID: IC201

MBLK Sample ID: WBLKW1-041404 Test Code: E300 Units: mg/L Analysis Date: 04/14/04 17:22

Client ID: Run ID: IC201_040414A SeqNo: 456851 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.98	0.10	5	0	99.6	80-120		0		

LCS Sample ID: WLCSW1-041404 Test Code: E300 Units: mg/L Analysis Date: 04/14/04 17:51

Client ID: Run ID: IC201_040414A SeqNo: 456852 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9	0.50	10	0	90	80-120		0		
Fluoride	2.06	0.10	2	0	103	80-120		0		
Sulfate	9.5	1.0	10	0	95	80-120		0		
Surr: Dichloroacetic acid (surr)	4.94	0.10	5	0	98.8	80-120		0		

LCSD Sample ID: WLCSDW1-04140 Test Code: E300 Units: mg/L Analysis Date: 04/14/04 18:19

Client ID: Run ID: IC201_040414A SeqNo: 456853 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.99	0.50	10	0	89.9	80-120		9	0.111	20
Fluoride	1.87	0.10	2	0	93.5	80-120		2.06	9.67	20
Sulfate	9.54	1.0	10	0	95.4	80-120		9.5	0.42	20
Surr: Dichloroacetic acid (surr)	5	0.10	5	0	100	80-120		4.94	1.21	20

MS Sample ID: 0404115-01BMS Test Code: E300 Units: mg/L Analysis Date: 04/15/04 11:54

Client ID: Run ID: IC201_040414A SeqNo: 456874 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1032	50	1000	163	86.9	75-125		0		
Fluoride	229	10	200	0	114	75-125		0		
Sulfate	2145	100	1000	1113	103	75-125		0		
Nitrate/Nitrite (as N)	408	10	400	0	102	75-125		0		
Surr: Dichloroacetic acid (surr)	499	10	500	0	99.8	80-120		0		

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19935 InstrumentID: IC201

MSD Sample ID: 0404115-01BMSD Test Code: E300 Units: mg/L Analysis Date: 04/15/04 12:23

Client ID: Run ID: IC201_040414A SeqNo: 456875 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1004	50	1000	163	84.1	75-125	1032	2.75	20	
Fluoride	219	10	200	0	110	75-125	229	4.46	20	
Sulfate	2101	100	1000	1113	98.8	75-125	2145	2.07	20	
Nitrate/Nitrite (as N)	397	10	400	0	99.2	75-125	408	2.73	20	
Surr: Dichloroacetic acid (surr)	514	10	500	0	103	80-120	499	2.96	20	

DUP Sample ID: 0404077-01BDUP Test Code: E300 Units: mg/L Analysis Date: 04/15/04 1:55

Client ID: Run ID: IC201_040414A SeqNo: 456869 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	646	50	0	0	0	0-0	646	0	20	
Fluoride	49	10	0	0	0	0-0	50	2.02	20	
Sulfate	1995	100	0	0	0	0-0	1998	0.15	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	517	10	500	0	103	80-120	522	0.962	20	

DUP Sample ID: 0404115-01BDUP Test Code: E300 Units: mg/L Analysis Date: 04/15/04 11:26

Client ID: Run ID: IC201_040414A SeqNo: 456873 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	165	50	0	0	0	0-0	163	1.22	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1112	100	0	0	0	0-0	1113	0.0899	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	519	10	500	0	104	80-120	530	2.1	20	

DUP Sample ID: 0404115-06BDUP Test Code: E300 Units: mg/L Analysis Date: 04/15/04 17:08

Client ID: Run ID: IC201_040414A SeqNo: 456898 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	323	50	0	0	0	0-0	324	0.309	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1862	100	0	0	0	0-0	1866	0.215	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	507	10	500	0	101	80-120	498	1.79	20	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19935 InstrumentID: IC201

DUP	Sample ID: 0404099-03ADUP	Test Code: E300			Units: mg/L		Analysis Date: 04/15/04 7:38			
Client ID:	Run ID: IC201_040414A	SeqNo: 456933			Prep Date:		DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	605	50	0	0	0	0-0	606	0.165	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	4123	100	0	0	0	0-0	4144	0.508	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	519	10	500	0	104	80-120	513	1.16	20	

The following samples were analyzed in this batch:

0404140-01B 0404140-02B 0404140-03B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19956	InstrumentID: UV-2101PC										
MBLK	Sample ID: WMBW1-041704		Test Code: E335.3			Units: mg/L		Analysis Date: 04/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040417A	SeqNo:	457309	Prep Date:			DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020								
LCS	Sample ID: WLCSW1-041704		Test Code: E335.3			Units: mg/L		Analysis Date: 04/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040417A	SeqNo:	457310	Prep Date:			DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.2039	0.020	0.2	0	102	80-120		0		
MS	Sample ID: 0404115-06DMS		Test Code: E335.3			Units: mg/L		Analysis Date: 04/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040417A	SeqNo:	457326	Prep Date:			DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.2	0.020	0.2	0.001	99.5	75-125		0		
MSD	Sample ID: 0404115-06DMSD		Test Code: E335.3			Units: mg/L		Analysis Date: 04/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040417A	SeqNo:	457327	Prep Date:			DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.1987	0.020	0.2	0.001	98.8	75-125		0.2	0.652	25
DUP	Sample ID: 0404115-06DDUP		Test Code: E335.3			Units: mg/L		Analysis Date: 04/17/04 0:00			
Client ID:		Run ID: UV-2101PC_040417A	SeqNo:	457325	Prep Date:			DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020	0	0	0	0-0		0.001	0	20

The following samples were analyzed in this batch:

0404140-01D	0404140-02D	0404140-03D
-------------	-------------	-------------

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19971		InstrumentID: IC201								
MBLK	Sample ID: WBLKW1-041604		Test Code: E300		Units: mg/L		Analysis Date: 04/16/04 21:39			
Client ID:	Run ID: IC201_040417A		SeqNo: 457663		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.83	0.10	5	0	96.6	80-120		0		
LCS	Sample ID: WLCSW1-041604		Test Code: E300		Units: mg/L		Analysis Date: 04/16/04 22:07			
Client ID:	Run ID: IC201_040417A		SeqNo: 457664		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Chloride	9.07	0.50	10	0	90.7	80-120		0		
Fluoride	1.82	0.10	2	0	91	80-120		0		
Sulfate	9.62	1.0	10	0	96.2	80-120		0		
Surr: Dichloroacetic acid (surr)	4.89	0.10	5	0	97.8	80-120		0		
LCSD	Sample ID: WLCSDW1-04160		Test Code: E300		Units: mg/L		Analysis Date: 04/16/04 22:36			
Client ID:	Run ID: IC201_040417A		SeqNo: 457665		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Chloride	9.07	0.50	10	0	90.7	80-120	9.07	0	20	
Fluoride	1.88	0.10	2	0	94	80-120	1.82	3.24	20	
Sulfate	9.57	1.0	10	0	95.7	80-120	9.62	0.521	20	
Surr: Dichloroacetic acid (surr)	5.03	0.10	5	0	101	80-120	4.89	2.82	20	
MS	Sample ID: 0404150-02CMS		Test Code: E300		Units: mg/L		Analysis Date: 04/17/04 5:15			
Client ID:	Run ID: IC201_040417A		SeqNo: 457689		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD	RPD Limit	Qual
Chloride	23.43	0.50	10	13.02	104	75-125		0		
Fluoride	2.23	0.10	2	0.33	95	75-125		0		
Sulfate	40.76	1.0	10	29.93	108	75-125		0		
Nitrate/Nitrite (as N)	4.17	0.10	4	0	104	75-125		0		
Surr: Dichloroacetic acid (surr)	5.49	0.10	5	0	110	80-120		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404140
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19971 InstrumentID: IC201

MSD	Sample ID: 0404150-02CMSD		Test Code: E300		Units: mg/L		Analysis Date: 04/17/04 5:44			
Client ID:	Run ID: IC201_040417A		SeqNo: 457690		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	23.09	0.50	10	13.02	101	75-125	23.43	1.46	20	
Fluoride	2.28	0.10	2	0.33	97.5	75-125	2.23	2.22	20	
Sulfate	40.36	1.0	10	29.93	104	75-125	40.76	0.986	20	
Nitrate/Nitrite (as N)	3.91	0.10	4	0	97.8	75-125	4.17	6.44	20	
Surr: Dichloroacetic acid (surr)	5.13	0.10	5	0	103	80-120	5.49	6.78	20	

DUP	Sample ID: 0404150-11CDUP		Test Code: E300		Units: mg/L		Analysis Date: 04/17/04 11:26			
Client ID:	Run ID: IC201_040417A		SeqNo: 457676		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	40.97	0.50	0	0	0	0-0	40.9	0.171	20	
Fluoride	0.36	0.10	0	0	0	0-0	0.38	5.41	20	
Sulfate	35.21	1.0	0	0	0	0-0	35.07	0.398	20	
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	5.25	0.10	5	0	105	80-120	5.35	1.89	20	

DUP	Sample ID: 0404150-02CDUP		Test Code: E300		Units: mg/L		Analysis Date: 04/17/04 4:47			
Client ID:	Run ID: IC201_040417A		SeqNo: 457688		Prep Date:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	13.07	0.50	0	0	0	0-0	13.02	0.383	20	
Fluoride	0.34	0.10	0	0	0	0-0	0.33	2.99	20	
Sulfate	29.8	1.0	0	0	0	0-0	29.93	0.435	20	
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	5.36	0.10	5	0	107	80-120	5.54	3.3	20	

The following samples were analyzed in this batch:

0404140-01B 0404140-02B 0404140-03B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

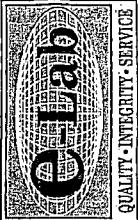
R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range



e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Chain of Custody Form

Page 1 of 1

Customer Information		Project Information		Parameter/Method Request for Analysis																
Purchase Order	Project Name	NCL/TEL	A <input checked="" type="checkbox"/> TEL (See List)	e-Lab Project Manager:	W. Byrd															
Work Order	Project Number		B																	
Company Name	Bill To Company		C																	
Send Report To	Invoice Attn.	Jeff Byrd	D																	
Address	Address		E																	
City/State/Zip	City/State/Zip		F																	
Phone	Phone		G																	
Fax	Fax		H																	
e-Mail Address			I																	
			J																	
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	MW-60	4/13/04	1330	L	4	8	0													
2	MCL-33	4/15	1	1	1	1	0													
3	MCL-34	1/500					X													
4																				
5																				
6																				
7																				
8																				
9																				
10																				
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:														
Byrd		Date:	Time:	Received by:		<input type="checkbox"/> Other _____														
Buff		4/13/04	1615			<input type="checkbox"/> STD 10 Wk Days	<input type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 24 Hour											
Logged by (Laboratory):		Date:	Time:	Received by (Laboratory):	Coiler Temp:	QC Package: (Check Box Below)														
		4/14/04	0900	Checked by Laboratory:		Level II: Standard QC														
						Level III: Standard QC + Raw Data														
						Level IV: SW846 Methods/CLP														
						Other: _____														

Note: Any changes must be made in writing on these samples and COC Form have been submitted to e-Lab, Inc.

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e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 4/14/2004 9:00:00 AM

Work Order Number 0404140

Received by: FSM

Checklist completed by:

Signature

RAMON SANCHEZ 414-14

Date

Reviewed by:

Initials

Date

4/15/04

Matrix: W

Carrier name FedEx

- | | | | |
|---|---|--|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <u>3.7c</u> | <u>002</u> | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

Adjusted? _____ Checked by _____

Login Notes: One vial for MW-60 and two vials for NCL-34 have excessive headspace.

Any No and/or NA (not applicable) response must be detailed in the comments section below.



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

April 26, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0404115**

Dear Jeff Byrd,

e-Lab, Inc. received 6 samples on 4/13/2004 9:00:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 47.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Jeffrey L Croston

Electronically approved by: Patrina A. Dathorne

Jeffrey L Croston

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0404115

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0404115-01	MW-53	Water		4/12/2004 08:45	4/13/2004 09:00	<input type="checkbox"/>
0404115-02	NCL-49	Water		4/12/2004 09:30	4/13/2004 09:00	<input type="checkbox"/>
0404115-03	NCL-32	Water		4/12/2004 10:10	4/13/2004 09:00	<input type="checkbox"/>
0404115-04	NCL-44	Water		4/12/2004 10:30	4/13/2004 09:00	<input type="checkbox"/>
0404115-05	MW-55	Water		4/12/2004 13:30	4/13/2004 09:00	<input type="checkbox"/>
0404115-06	MW-54A	Water		4/12/2004 14:00	4/13/2004 09:00	<input type="checkbox"/>

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0404115

Case Narrative

Batch R20057 Volatiles LCS recoveries were marginally outside of control limits for Methylene chloride (122%). The recovery was biased high and all the associated samples were ND, therefore the data was accepted.

Batch R20062 Volatiles MS/MSD recoveries were outside of control limits on an unrelated sample.

Batch R19878 Anions MS/MSD recoveries were outside of control limits for Chloride and Sulfate. The recoveries should not be evaluated because the background concentrations exceed the working linear calibration range and was >4 times the spike amount.

e-Lab, Inc.**Date:** April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-01

Client Sample ID: MW-53
Collection Date: 4/12/2004 8:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed	
MERCURY, TOTAL				SW7470			
Mercury	ND	0.000200		mg/L	1	4/16/2004	4/16/2004 4:25:21 PM
ICP METALS, TOTAL				SW6020			
Aluminum	0.0412	0.0100		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Arsenic	ND	0.00500		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Barium	0.0239	0.00500		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Beryllium	ND	0.00200		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Boron	0.287	0.0200		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Cadmium	ND	0.00100		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Calcium	293	5.00		mg/L	10	4/19/2004	4/19/2004 1:22:00 PM
Chromium	0.00203	0.00200		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Cobalt	0.00448	0.00200		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Copper	ND	0.00200		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Iron	ND	0.200		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Lead	ND	0.00500		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Magnesium	164	2.00		mg/L	10	4/19/2004	4/19/2004 1:22:00 PM
Manganese	1.75	0.0500		mg/L	10	4/19/2004	4/19/2004 1:22:00 PM
Nickel	0.00574	0.00500		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Potassium	1.01	0.200		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Selenium	ND	0.00500		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Silver	ND	0.00500		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Sodium	125	2.00		mg/L	10	4/19/2004	4/19/2004 1:22:00 PM
Vanadium	0.00661	0.00500		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
Zinc	ND	0.00500		mg/L	1	4/16/2004	4/16/2004 6:30:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
2-Methylphenol	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
2-Nitroaniline	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
3-Nitroaniline	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
4-Methylphenol	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
4-Nitroaniline	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
4-Nitrophenol	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
Acenaphthene	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
Acenaphthylene	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM
Aniline	ND	10		µg/L	1	4/16/2004	4/16/2004 7:29:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-01

Client Sample ID: MW-53
Collection Date: 4/12/2004 8:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Benzidine	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Hexachloroethane	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Isophorone	ND	10		µg/L	1	4/16/2004 7:29:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/16/2004 7:29:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/16/2004 7:29:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Naphthalene	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Nitrobenzene	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Pentachlorophenol	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Phenanthrene	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Phenol	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Pyrene	ND	10		µg/L	1	4/16/2004 7:29:00 PM
Surr: 2,4,6-Tribromophenol	86.1	39-153		%REC	1	4/16/2004 7:29:00 PM
Surr: 2-Fluorobiphenyl	75.0	40-147		%REC	1	4/16/2004 7:29:00 PM
Surr: 2-Fluorophenol	35.1	21-110		%REC	1	4/16/2004 7:29:00 PM
Surr: 4-Terphenyl-d14	79.4	39-141		%REC	1	4/16/2004 7:29:00 PM
Surr: Nitrobenzene-d5	72.9	37-140		%REC	1	4/16/2004 7:29:00 PM
Surr: Phenol-d6	20.9	11-100		%REC	1	4/16/2004 7:29:00 PM

VOLATILES BY GC/MS**SW8260****Analyst: PC**

1,1,1-Trichloroethane	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
2-Butanone	ND	10	µg/L	1	4/22/2004 10:30:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	1	4/22/2004 10:30:00 PM
2-Hexanone	ND	10	µg/L	1	4/22/2004 10:30:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	1	4/22/2004 10:30:00 PM
Acetone	ND	10	µg/L	1	4/22/2004 10:30:00 PM
Benzene	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
Bromodichloromethane	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
Bromoform	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
Bromomethane	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
Carbon disulfide	ND	10	µg/L	1	4/22/2004 10:30:00 PM
Carbon tetrachloride	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM
Chlorobenzene	ND	5.0	µg/L	1	4/22/2004 10:30:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-01

Client Sample ID: MW-53
Collection Date: 4/12/2004 8:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
Chloroform	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
Chloromethane	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
Ethylbenzene	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
m,p-Xylene	ND	10		µg/L	1	4/22/2004 10:30:00 PM
Methylene chloride	ND	10		µg/L	1	4/22/2004 10:30:00 PM
Styrene	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
Toluene	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
Trichloroethene	ND	5.0		µg/L	1	4/22/2004 10:30:00 PM
Vinyl acetate	ND	10		µg/L	1	4/22/2004 10:30:00 PM
Vinyl chloride	ND	2.0		µg/L	1	4/22/2004 10:30:00 PM
Xylenes, Total	ND	15		µg/L	1	4/22/2004 10:30:00 PM
Surr: 1,2-Dichloroethane-d4	104	71-126		%REC	1	4/22/2004 10:30:00 PM
Surr: 4-Bromofluorobenzene	77.4	74-125		%REC	1	4/22/2004 10:30:00 PM
Surr: Dibromofluoromethane	99.9	73-126		%REC	1	4/22/2004 10:30:00 PM
Surr: Toluene-d8	95.0	75-125		%REC	1	4/22/2004 10:30:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	48.5	2.50	mg/L	5	4/13/2004 8:47:00 PM
Fluoride	1.36	0.100	mg/L	1	4/13/2004 8:18:00 PM
Sulfate	1,110	100	mg/L	100	4/15/2004 10:57:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/13/2004 8:18:00 PM
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	1	4/13/2004 8:18:00 PM
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	5	4/13/2004 8:47:00 PM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	100	4/15/2004 10:57:00 AM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	314	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	314	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-02

Client Sample ID: NCL-49
Collection Date: 4/12/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/16/2004 4:34:35 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0117	0.0100		mg/L	1	4/16/2004 6:35:00 PM
Arsenic	ND	0.00500		mg/L	1	4/16/2004 6:35:00 PM
Barium	0.0110	0.00500		mg/L	1	4/16/2004 6:35:00 PM
Beryllium	ND	0.00200		mg/L	1	4/16/2004 6:35:00 PM
Boron	0.240	0.0200		mg/L	1	4/16/2004 6:35:00 PM
Cadmium	ND	0.00100		mg/L	1	4/16/2004 6:35:00 PM
Calcium	502	10.0		mg/L	20	4/19/2004 2:33:00 PM
Chromium	ND	0.00200		mg/L	1	4/16/2004 6:35:00 PM
Cobalt	ND	0.00200		mg/L	1	4/16/2004 6:35:00 PM
Copper	0.00210	0.00200		mg/L	1	4/16/2004 6:35:00 PM
Iron	ND	0.200		mg/L	1	4/16/2004 6:35:00 PM
Lead	ND	0.00500		mg/L	1	4/16/2004 6:35:00 PM
Magnesium	217	4.00		mg/L	20	4/19/2004 2:33:00 PM
Manganese	0.00671	0.00500		mg/L	1	4/16/2004 6:35:00 PM
Nickel	ND	0.00500		mg/L	1	4/16/2004 6:35:00 PM
Potassium	0.623	0.200		mg/L	1	4/16/2004 6:35:00 PM
Selenium	0.00693	0.00500		mg/L	1	4/16/2004 6:35:00 PM
Silver	ND	0.00500		mg/L	1	4/16/2004 6:35:00 PM
Sodium	117	4.00		mg/L	20	4/19/2004 2:33:00 PM
Vanadium	0.00945	0.00500		mg/L	1	4/16/2004 6:35:00 PM
Zinc	ND	0.00500		mg/L	1	4/16/2004 6:35:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/16/2004 8:01:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/16/2004 8:01:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
2-Methylphenol	ND	10		µg/L	1	4/16/2004 8:01:00 PM
2-Nitroaniline	ND	10		µg/L	1	4/16/2004 8:01:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/16/2004 8:01:00 PM
3-Nitroaniline	ND	10		µg/L	1	4/16/2004 8:01:00 PM
4-Methylphenol	ND	10		µg/L	1	4/16/2004 8:01:00 PM
4-Nitroaniline	ND	10		µg/L	1	4/16/2004 8:01:00 PM
4-Nitrophenol	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Acenaphthene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Acenaphthylene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Aniline	ND	10		µg/L	1	4/16/2004 8:01:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-02

Client Sample ID: NCL-49
Collection Date: 4/12/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Benzidine	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Hexachloroethane	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Isophorone	ND	10		µg/L	1	4/16/2004 8:01:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/16/2004 8:01:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/16/2004 8:01:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Naphthalene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Nitrobenzene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Pentachlorophenol	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Phenanthrene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Phenol	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Pyrene	ND	10		µg/L	1	4/16/2004 8:01:00 PM
Surr: 2,4,6-Tribromophenol	86.6	39-153		%REC	1	4/16/2004 8:01:00 PM
Surr: 2-Fluorobiphenyl	76.4	40-147		%REC	1	4/16/2004 8:01:00 PM
Surr: 2-Fluorophenol	36.7	21-110		%REC	1	4/16/2004 8:01:00 PM
Surr: 4-Terphenyl-d14	80.3	39-141		%REC	1	4/16/2004 8:01:00 PM
Surr: Nitrobenzene-d5	74.2	37-140		%REC	1	4/16/2004 8:01:00 PM
Surr: Phenol-d6	22.1	11-100		%REC	1	4/16/2004 8:01:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	ND	5.0	µg/L	1
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1
Chlorobenzene	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-02

Client Sample ID: NCL-49
Collection Date: 4/12/2004 9:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
Chloroform	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
Chloromethane	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
Ethylbenzene	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
m,p-Xylene	ND	10		µg/L	1	4/23/2004 4:25:00 AM
Methylene chloride	ND	10		µg/L	1	4/23/2004 4:25:00 AM
Styrene	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
Toluene	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
Trichloroethene	ND	5.0		µg/L	1	4/23/2004 4:25:00 AM
Vinyl acetate	ND	10		µg/L	1	4/23/2004 4:25:00 AM
Vinyl chloride	ND	2.0		µg/L	1	4/23/2004 4:25:00 AM
Xylenes, Total	ND	15		µg/L	1	4/23/2004 4:25:00 AM
Surr: 1,2-Dichloroethane-d4	107	71-126		%REC	1	4/23/2004 4:25:00 AM
Surr: 4-Bromofluorobenzene	78.2	74-125		%REC	1	4/23/2004 4:25:00 AM
Surr: Dibromofluoromethane	104	73-126		%REC	1	4/23/2004 4:25:00 AM
Surr: Toluene-d8	96.9	75-125		%REC	1	4/23/2004 4:25:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	195	2.50	mg/L	5	4/13/2004 10:12:00 PM
Fluoride	0.900	0.100	mg/L	1	4/13/2004 9:15:00 PM
Sulfate	1,760	100	mg/L	100	4/15/2004 12:51:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/13/2004 9:15:00 PM
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	1	4/13/2004 9:15:00 PM
Surr: Dichloroacetic acid (surr)	102	80-120	%REC	5	4/13/2004 10:12:00 PM
Surr: Dichloroacetic acid (surr)	100	80-120	%REC	100	4/15/2004 12:51:00 PM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	211	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	211	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-03

Client Sample ID: NCL-32
Collection Date: 4/12/2004 10:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/16/2004 4:36:05 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.457	0.0100		mg/L	1	4/16/2004 6:41:00 PM
Arsenic	ND	0.00500		mg/L	1	4/16/2004 6:41:00 PM
Barium	0.0233	0.00500		mg/L	1	4/16/2004 6:41:00 PM
Beryllium	ND	0.00200		mg/L	1	4/16/2004 6:41:00 PM
Boron	0.234	0.0200		mg/L	1	4/16/2004 6:41:00 PM
Cadmium	ND	0.00100		mg/L	1	4/16/2004 6:41:00 PM
Calcium	466	5.00		mg/L	10	4/19/2004 2:51:00 PM
Chromium	0.00240	0.00200		mg/L	1	4/16/2004 6:41:00 PM
Cobalt	0.00246	0.00200		mg/L	1	4/16/2004 6:41:00 PM
Copper	0.00222	0.00200		mg/L	1	4/16/2004 6:41:00 PM
Iron	0.367	0.200		mg/L	1	4/16/2004 6:41:00 PM
Lead	ND	0.00500		mg/L	1	4/16/2004 6:41:00 PM
Magnesium	147	2.00		mg/L	10	4/19/2004 2:51:00 PM
Manganese	0.792	0.0500		mg/L	10	4/19/2004 2:51:00 PM
Nickel	0.00678	0.00500		mg/L	1	4/16/2004 6:41:00 PM
Potassium	3.00	0.200		mg/L	1	4/16/2004 6:41:00 PM
Selenium	ND	0.00500		mg/L	1	4/16/2004 6:41:00 PM
Silver	ND	0.00500		mg/L	1	4/16/2004 6:41:00 PM
Sodium	73.0	2.00		mg/L	10	4/19/2004 2:51:00 PM
Vanadium	0.0145	0.00500		mg/L	1	4/16/2004 6:41:00 PM
Zinc	0.0197	0.00500		mg/L	1	4/16/2004 6:41:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/16/2004 8:32:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/16/2004 8:32:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
2-Methylphenol	ND	10		µg/L	1	4/16/2004 8:32:00 PM
2-Nitroaniline	ND	10		µg/L	1	4/16/2004 8:32:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/16/2004 8:32:00 PM
3-Nitroaniline	ND	10		µg/L	1	4/16/2004 8:32:00 PM
4-Methylphenol	ND	10		µg/L	1	4/16/2004 8:32:00 PM
4-Nitroaniline	ND	10		µg/L	1	4/16/2004 8:32:00 PM
4-Nitrophenol	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Acenaphthene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Acenaphthylene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Aniline	ND	10		µg/L	1	4/16/2004 8:32:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analytic detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analytic detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-03

Client Sample ID: NCL-32
Collection Date: 4/12/2004 10:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Benzidine	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Hexachloroethane	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Isophorone	ND	10		µg/L	1	4/16/2004 8:32:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/16/2004 8:32:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/16/2004 8:32:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Naphthalene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Nitrobenzene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Pentachlorophenol	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Phenanthrene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Phenol	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Pyrene	ND	10		µg/L	1	4/16/2004 8:32:00 PM
Surr: 2,4,6-Tribromophenol	86.7	39-153		%REC	1	4/16/2004 8:32:00 PM
Surr: 2-Fluorobiphenyl	76.5	40-147		%REC	1	4/16/2004 8:32:00 PM
Surr: 2-Fluorophenol	36.8	21-110		%REC	1	4/16/2004 8:32:00 PM
Surr: 4-Terphenyl-d14	79.8	39-141		%REC	1	4/16/2004 8:32:00 PM
Surr: Nitrobenzene-d5	74.8	37-140		%REC	1	4/16/2004 8:32:00 PM
Surr: Phenol-d6	22.3	11-100		%REC	1	4/16/2004 8:32:00 PM

VOLATILES BY GC/MS

		SW8260	Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L
1,1,2-Trichloroethane	ND	5.0	µg/L
1,1-Dichloroethane	ND	5.0	µg/L
1,1-Dichloroethene	ND	5.0	µg/L
1,2-Dichloroethane	ND	5.0	µg/L
2-Butanone	ND	10	µg/L
2-Chloroethyl vinyl ether	ND	10	µg/L
2-Hexanone	ND	10	µg/L
4-Methyl-2-pentanone	ND	10	µg/L
Acetone	ND	10	µg/L
Benzene	ND	5.0	µg/L
Bromodichloromethane	ND	5.0	µg/L
Bromoform	ND	5.0	µg/L
Bromomethane	ND	5.0	µg/L
Carbon disulfide	ND	10	µg/L
Carbon tetrachloride	ND	5.0	µg/L
Chlorobenzene	ND	5.0	µg/L

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-03

Client Sample ID: NCL-32
Collection Date: 4/12/2004 10:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
Chloroform	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
Chloromethane	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
Ethylbenzene	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
m,p-Xylene	ND	10		µg/L	1	4/23/2004 4:52:00 AM
Methylene chloride	ND	10		µg/L	1	4/23/2004 4:52:00 AM
Styrene	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
Toluene	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
Trichloroethene	ND	5.0		µg/L	1	4/23/2004 4:52:00 AM
Vinyl acetate	ND	10		µg/L	1	4/23/2004 4:52:00 AM
Vinyl chloride	ND	2.0		µg/L	1	4/23/2004 4:52:00 AM
Xylenes, Total	ND	15		µg/L	1	4/23/2004 4:52:00 AM
Surr: 1,2-Dichloroethane-d4	99.3	71-126		%REC	1	4/23/2004 4:52:00 AM
Surr: 4-Bromofluorobenzene	77.2	74-125		%REC	1	4/23/2004 4:52:00 AM
Surr: Dibromofluoromethane	101	73-126		%REC	1	4/23/2004 4:52:00 AM
Surr: Toluene-d8	95.7	75-125		%REC	1	4/23/2004 4:52:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	214	2.50	mg/L	5	4/14/2004 12:06:00 AM
Fluoride	ND	0.100	mg/L	1	4/13/2004 11:38:00 PM
Sulfate	1,240	100	mg/L	100	4/15/2004 2:17:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/13/2004 11:38:00 PM
Surr: Dichloroacetic acid (surr)	107	80-120	%REC	1	4/13/2004 11:38:00 PM
Surr: Dichloroacetic acid (surr)	99.0	80-120	%REC	5	4/14/2004 12:06:00 AM
Surr: Dichloroacetic acid (surr)	102	80-120	%REC	100	4/15/2004 2:17:00 PM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	324	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	324	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analytic detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-04

Client Sample ID: NCL-44
Collection Date: 4/12/2004 10:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
Mercury	ND	0.000200		mg/L	1	4/16/2004 4:37:35 PM
ICP METALS, TOTAL						
Aluminum	0.590	0.100		mg/L	10	4/19/2004 2:57:00 PM
Arsenic	0.0238	0.00500		mg/L	1	4/16/2004 6:47:00 PM
Barium	0.0376	0.00500		mg/L	1	4/16/2004 6:47:00 PM
Beryllium	ND	0.00200		mg/L	1	4/16/2004 6:47:00 PM
Boron	0.272	0.0200		mg/L	1	4/16/2004 6:47:00 PM
Cadmium	ND	0.00100		mg/L	1	4/16/2004 6:47:00 PM
Calcium	313	5.00		mg/L	10	4/19/2004 2:57:00 PM
Chromium	0.00936	0.00200		mg/L	1	4/16/2004 6:47:00 PM
Cobalt	0.00441	0.00200		mg/L	1	4/16/2004 6:47:00 PM
Copper	0.0376	0.00200		mg/L	1	4/16/2004 6:47:00 PM
Iron	1.36	0.200		mg/L	1	4/16/2004 6:47:00 PM
Lead	ND	0.00500		mg/L	1	4/16/2004 6:47:00 PM
Magnesium	114	2.00		mg/L	10	4/19/2004 2:57:00 PM
Manganese	0.742	0.0500		mg/L	10	4/19/2004 2:57:00 PM
Nickel	0.00562	0.00500		mg/L	1	4/16/2004 6:47:00 PM
Potassium	2.07	0.200		mg/L	1	4/16/2004 6:47:00 PM
Selenium	ND	0.00500		mg/L	1	4/16/2004 6:47:00 PM
Silver	ND	0.00500		mg/L	1	4/16/2004 6:47:00 PM
Sodium	66.2	2.00		mg/L	10	4/19/2004 2:57:00 PM
Vanadium	ND	0.00500		mg/L	1	4/16/2004 6:47:00 PM
Zinc	0.0267	0.00500		mg/L	1	4/16/2004 6:47:00 PM
SEMOVOLATILE ORGANICS BY GC/MS						
			SW8270		Prep Date: 4/13/2004	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
2,4,5-Trichlorophenol	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
2,4,6-Trichlorophenol	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
2-Methylnaphthalene	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
2-Methylphenol	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
2-Nitroaniline	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
2-Nitrophenol	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
3-Nitroaniline	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
4-Methylphenol	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
4-Nitroaniline	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
4-Nitrophenol	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
Acenaphthene	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
Acenaphthylene	ND	10	µg/L	1	4/16/2004 9:04:00 PM	
Aniline	ND	10	µg/L	1	4/16/2004 9:04:00 PM	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-04

Client Sample ID: NCL-44
Collection Date: 4/12/2004 10:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Benzidine	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Hexachloroethane	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Isophorone	ND	10		µg/L	1	4/16/2004 9:04:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/16/2004 9:04:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/16/2004 9:04:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Naphthalene	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Nitrobenzene	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Pentachlorophenol	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Phenanthrene	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Phenol	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Pyrene	ND	10		µg/L	1	4/16/2004 9:04:00 PM
Surr: 2,4,6-Tribromophenol	93.4	39-153		%REC	1	4/16/2004 9:04:00 PM
Surr: 2-Fluorobiphenyl	80.8	40-147		%REC	1	4/16/2004 9:04:00 PM
Surr: 2-Fluorophenol	38.9	21-110		%REC	1	4/16/2004 9:04:00 PM
Surr: 4-Terphenyl-d14	83.5	39-141		%REC	1	4/16/2004 9:04:00 PM
Surr: Nitrobenzene-d5	80.1	37-140		%REC	1	4/16/2004 9:04:00 PM
Surr: Phenol-d6	23.6	11-100		%REC	1	4/16/2004 9:04:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	4/23/2004 5:19:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	4/23/2004 5:19:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	4/23/2004 5:19:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	4/23/2004 5:19:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	4/23/2004 5:19:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	4/23/2004 5:19:00 AM
2-Butanone	ND	10	µg/L	4/23/2004 5:19:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	4/23/2004 5:19:00 AM
2-Hexanone	ND	10	µg/L	4/23/2004 5:19:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	4/23/2004 5:19:00 AM
Acetone	ND	10	µg/L	4/23/2004 5:19:00 AM
Benzene	ND	5.0	µg/L	4/23/2004 5:19:00 AM
Bromodichloromethane	ND	5.0	µg/L	4/23/2004 5:19:00 AM
Bromoform	ND	5.0	µg/L	4/23/2004 5:19:00 AM
Bromomethane	ND	5.0	µg/L	4/23/2004 5:19:00 AM
Carbon disulfide	ND	10	µg/L	4/23/2004 5:19:00 AM
Carbon tetrachloride	ND	5.0	µg/L	4/23/2004 5:19:00 AM
Chlorobenzene	ND	5.0	µg/L	4/23/2004 5:19:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-04

Client Sample ID: NCL-44
Collection Date: 4/12/2004 10:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
Chloroform	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
Chloromethane	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
Ethylbenzene	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
m,p-Xylene	ND	10		µg/L	1	4/23/2004 5:19:00 AM
Methylene chloride	ND	10		µg/L	1	4/23/2004 5:19:00 AM
Styrene	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
Toluene	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
Trichloroethene	ND	5.0		µg/L	1	4/23/2004 5:19:00 AM
Vinyl acetate	ND	10		µg/L	1	4/23/2004 5:19:00 AM
Vinyl chloride	ND	2.0		µg/L	1	4/23/2004 5:19:00 AM
Xylenes, Total	ND	15		µg/L	1	4/23/2004 5:19:00 AM
Surr: 1,2-Dichloroethane-d4	103	71-126		%REC	1	4/23/2004 5:19:00 AM
Surr: 4-Bromofluorobenzene	84.9	74-125		%REC	1	4/23/2004 5:19:00 AM
Surr: Dibromofluoromethane	105	73-126		%REC	1	4/23/2004 5:19:00 AM
Surr: Toluene-d8	94.2	75-125		%REC	1	4/23/2004 5:19:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300****Analyst:** MG

Chloride	250	2.50	mg/L	5	4/14/2004 1:03:00 AM
Fluoride	ND	0.100	mg/L	1	4/14/2004 12:35:00 AM
Sulfate	478	20.0	mg/L	20	4/15/2004 2:45:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/14/2004 12:35:00 AM
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	1	4/14/2004 12:35:00 AM
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	5	4/14/2004 1:03:00 AM
Surr: Dichloroacetic acid (surr)	104	80-120	%REC	20	4/15/2004 2:45:00 PM

ALKALINITY**E310.1****Analyst:** LMD

Alkalinity, Bicarbonate (As CaCO ₃)	515	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	515	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL**E335.3****Analyst:** LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-05

Client Sample ID: MW-55
Collection Date: 4/12/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/16/2004 4:39:06 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0150	0.0100		mg/L	1	4/16/2004 6:53:00 PM
Arsenic	0.00542	0.00500		mg/L	1	4/16/2004 6:53:00 PM
Barium	0.0102	0.00500		mg/L	1	4/16/2004 6:53:00 PM
Beryllium	ND	0.00200		mg/L	1	4/16/2004 6:53:00 PM
Boron	0.382	0.0200		mg/L	1	4/16/2004 6:53:00 PM
Cadmium	ND	0.00100		mg/L	1	4/16/2004 6:53:00 PM
Calcium	429	5.00		mg/L	10	4/19/2004 3:03:00 PM
Chromium	ND	0.00200		mg/L	1	4/16/2004 6:53:00 PM
Cobalt	ND	0.00200		mg/L	1	4/16/2004 6:53:00 PM
Copper	ND	0.00200		mg/L	1	4/16/2004 6:53:00 PM
Iron	ND	0.200		mg/L	1	4/16/2004 6:53:00 PM
Lead	ND	0.00500		mg/L	1	4/16/2004 6:53:00 PM
Magnesium	234	2.00		mg/L	10	4/19/2004 3:03:00 PM
Manganese	0.425	0.00500		mg/L	1	4/16/2004 6:53:00 PM
Nickel	0.00737	0.00500		mg/L	1	4/16/2004 6:53:00 PM
Potassium	0.672	0.200		mg/L	1	4/16/2004 6:53:00 PM
Selenium	ND	0.00500		mg/L	1	4/16/2004 6:53:00 PM
Silver	ND	0.00500		mg/L	1	4/16/2004 6:53:00 PM
Sodium	181	2.00		mg/L	10	4/19/2004 3:03:00 PM
Vanadium	0.0126	0.00500		mg/L	1	4/16/2004 6:53:00 PM
Zinc	ND	0.00500		mg/L	1	4/16/2004 6:53:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/16/2004 9:36:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/16/2004 9:36:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
2-Methylphenol	ND	10		µg/L	1	4/16/2004 9:36:00 PM
2-Nitroaniline	ND	10		µg/L	1	4/16/2004 9:36:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/16/2004 9:36:00 PM
3-Nitroaniline	ND	10		µg/L	1	4/16/2004 9:36:00 PM
4-Methylphenol	ND	10		µg/L	1	4/16/2004 9:36:00 PM
4-Nitroaniline	ND	10		µg/L	1	4/16/2004 9:36:00 PM
4-Nitrophenol	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Acenaphthene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Acenaphthylene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Aniline	ND	10		µg/L	1	4/16/2004 9:36:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-05

Client Sample ID: MW-55
Collection Date: 4/12/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Benzidine	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Hexachloroethane	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Isophorone	ND	10		µg/L	1	4/16/2004 9:36:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/16/2004 9:36:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/16/2004 9:36:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Naphthalene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Nitrobenzene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Pentachlorophenol	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Phenanthrene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Phenol	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Pyrene	ND	10		µg/L	1	4/16/2004 9:36:00 PM
Surr: 2,4,6-Tribromophenol	87.5	39-153		%REC	1	4/16/2004 9:36:00 PM
Surr: 2-Fluorobiphenyl	77.2	40-147		%REC	1	4/16/2004 9:36:00 PM
Surr: 2-Fluorophenol	37.5	21-110		%REC	1	4/16/2004 9:36:00 PM
Surr: 4-Terphenyl-d14	80.4	39-141		%REC	1	4/16/2004 9:36:00 PM
Surr: Nitrobenzene-d5	77.7	37-140		%REC	1	4/16/2004 9:36:00 PM
Surr: Phenol-d6	23.4	11-100		%REC	1	4/16/2004 9:36:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	4/23/2004 5:46:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	4/23/2004 5:46:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	4/23/2004 5:46:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	4/23/2004 5:46:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	4/23/2004 5:46:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	4/23/2004 5:46:00 AM
2-Butanone	ND	10	µg/L	4/23/2004 5:46:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	4/23/2004 5:46:00 AM
2-Hexanone	ND	10	µg/L	4/23/2004 5:46:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	4/23/2004 5:46:00 AM
Acetone	ND	10	µg/L	4/23/2004 5:46:00 AM
Benzene	ND	5.0	µg/L	4/23/2004 5:46:00 AM
Bromodichloromethane	ND	5.0	µg/L	4/23/2004 5:46:00 AM
Bromoform	ND	5.0	µg/L	4/23/2004 5:46:00 AM
Bromomethane	ND	5.0	µg/L	4/23/2004 5:46:00 AM
Carbon disulfide	ND	10	µg/L	4/23/2004 5:46:00 AM
Carbon tetrachloride	ND	5.0	µg/L	4/23/2004 5:46:00 AM
Chlorobenzene	ND	5.0	µg/L	4/23/2004 5:46:00 AM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-05

Client Sample ID: MW-55
Collection Date: 4/12/2004 1:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
Chloroform	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
Chloromethane	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
Ethylbenzene	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
m,p-Xylene	ND	10		µg/L	1	4/23/2004 5:46:00 AM
Methylene chloride	ND	10		µg/L	1	4/23/2004 5:46:00 AM
Styrene	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
Toluene	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
Trichloroethene	ND	5.0		µg/L	1	4/23/2004 5:46:00 AM
Vinyl acetate	ND	10		µg/L	1	4/23/2004 5:46:00 AM
Vinyl chloride	ND	2.0		µg/L	1	4/23/2004 5:46:00 AM
Xylenes, Total	ND	15		µg/L	1	4/23/2004 5:46:00 AM
Surr: 1,2-Dichloroethane-d4	100	71-126		%REC	1	4/23/2004 5:46:00 AM
Surr: 4-Bromofluorobenzene	76.1	74-125		%REC	1	4/23/2004 5:46:00 AM
Surr: Dibromofluoromethane	102	73-126		%REC	1	4/23/2004 5:46:00 AM
Surr: Toluene-d8	93.9	75-125		%REC	1	4/23/2004 5:46:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	246	5.00	mg/L	10	4/15/2004 3:14:00 PM
Fluoride	ND	0.100	mg/L	1	4/14/2004 1:32:00 AM
Sulfate	1,440	100	mg/L	100	4/15/2004 3:42:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	4/14/2004 1:32:00 AM
Surr: Dichloroacetic acid (surr)	103	80-120	%REC	1	4/14/2004 1:32:00 AM
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	10	4/15/2004 3:14:00 PM
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	100	4/15/2004 3:42:00 PM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	392	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	392	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-06

Client Sample ID: MW-54A
Collection Date: 4/12/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	4/16/2004 4:40:38 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0183	0.0100		mg/L	1	4/16/2004 7:23:00 PM
Arsenic	ND	0.00500		mg/L	1	4/16/2004 7:23:00 PM
Barium	0.0321	0.00500		mg/L	1	4/16/2004 7:23:00 PM
Beryllium	ND	0.00200		mg/L	1	4/16/2004 7:23:00 PM
Boron	0.434	0.0200		mg/L	1	4/16/2004 7:23:00 PM
Cadmium	ND	0.00100		mg/L	1	4/16/2004 7:23:00 PM
Calcium	614	5.00		mg/L	10	4/19/2004 3:09:00 PM
Chromium	ND	0.00200		mg/L	1	4/16/2004 7:23:00 PM
Cobalt	0.00547	0.00200		mg/L	1	4/16/2004 7:23:00 PM
Copper	0.00237	0.00200		mg/L	1	4/16/2004 7:23:00 PM
Iron	0.257	0.200		mg/L	1	4/16/2004 7:23:00 PM
Lead	ND	0.00500		mg/L	1	4/16/2004 7:23:00 PM
Magnesium	222	2.00		mg/L	10	4/19/2004 3:09:00 PM
Manganese	1.26	0.0500		mg/L	10	4/19/2004 3:09:00 PM
Nickel	0.00989	0.00500		mg/L	1	4/16/2004 7:23:00 PM
Potassium	0.313	0.200		mg/L	1	4/16/2004 7:23:00 PM
Selenium	ND	0.00500		mg/L	1	4/16/2004 7:23:00 PM
Silver	ND	0.00500		mg/L	1	4/16/2004 7:23:00 PM
Sodium	154	2.00		mg/L	10	4/19/2004 3:09:00 PM
Vanadium	0.00556	0.00500		mg/L	1	4/16/2004 7:23:00 PM
Zinc	ND	0.00500		mg/L	1	4/16/2004 7:23:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	4/16/2004 10:08:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	4/16/2004 10:08:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
2-Methylphenol	ND	10		µg/L	1	4/16/2004 10:08:00 PM
2-Nitroaniline	ND	10		µg/L	1	4/16/2004 10:08:00 PM
2-Nitrophenol	ND	10		µg/L	1	4/16/2004 10:08:00 PM
3-Nitroaniline	ND	10		µg/L	1	4/16/2004 10:08:00 PM
4-Methylphenol	ND	10		µg/L	1	4/16/2004 10:08:00 PM
4-Nitroaniline	ND	10		µg/L	1	4/16/2004 10:08:00 PM
4-Nitrophenol	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Acenaphthene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Acenaphthylene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Aniline	ND	10		µg/L	1	4/16/2004 10:08:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-06

Client Sample ID: MW-54A
Collection Date: 4/12/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Benz(a)anthracene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Benzidine	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Hexachloroethane	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Isophorone	ND	10		µg/L	1	4/16/2004 10:08:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	4/16/2004 10:08:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	4/16/2004 10:08:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Naphthalene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Nitrobenzene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Pentachlorophenol	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Phenanthrene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Phenol	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Pyrene	ND	10		µg/L	1	4/16/2004 10:08:00 PM
Surr: 2,4,6-Tribromophenol	88.0	39-153		%REC	1	4/16/2004 10:08:00 PM
Surr: 2-Fluorobiphenyl	77.5	40-147		%REC	1	4/16/2004 10:08:00 PM
Surr: 2-Fluorophenol	34.6	21-110		%REC	1	4/16/2004 10:08:00 PM
Surr: 4-Terphenyl-d14	77.6	39-141		%REC	1	4/16/2004 10:08:00 PM
Surr: Nitrobenzene-d5	75.1	37-140		%REC	1	4/16/2004 10:08:00 PM
Surr: Phenol-d6	22.0	11-100		%REC	1	4/16/2004 10:08:00 PM

VOLATILES BY GC/MS

		SW8260	Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L
1,1,2-Trichloroethane	ND	5.0	µg/L
1,1-Dichloroethane	ND	5.0	µg/L
1,1-Dichloroethene	ND	5.0	µg/L
1,2-Dichloroethane	ND	5.0	µg/L
2-Butanone	ND	10	µg/L
2-Chloroethyl vinyl ether	ND	10	µg/L
2-Hexanone	ND	10	µg/L
4-Methyl-2-pentanone	ND	10	µg/L
Acetone	ND	10	µg/L
Benzene	ND	5.0	µg/L
Bromodichloromethane	ND	5.0	µg/L
Bromoform	ND	5.0	µg/L
Bromomethane	ND	5.0	µg/L
Carbon disulfide	ND	10	µg/L
Carbon tetrachloride	ND	5.0	µg/L
Chlorobenzene	ND	5.0	µg/L

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: April 26, 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL
Lab ID: 0404115-06

Client Sample ID: MW-54A
Collection Date: 4/12/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
Chloroform	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
Chloromethane	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
Ethylbenzene	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
m,p-Xylene	ND	10		µg/L	1	4/23/2004 6:14:00 AM
Methylene chloride	ND	10		µg/L	1	4/23/2004 6:14:00 AM
Styrene	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
Toluene	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
Trichloroethene	ND	5.0		µg/L	1	4/23/2004 6:14:00 AM
Vinyl acetate	ND	10		µg/L	1	4/23/2004 6:14:00 AM
Vinyl chloride	ND	2.0		µg/L	1	4/23/2004 6:14:00 AM
Xylenes, Total	ND	15		µg/L	1	4/23/2004 6:14:00 AM
Surr: 1,2-Dichloroethane-d4	106	71-126		%REC	1	4/23/2004 6:14:00 AM
Surr: 4-Bromofluorobenzene	87.0	74-125		%REC	1	4/23/2004 6:14:00 AM
Surr: Dibromofluoromethane	102	73-126		%REC	1	4/23/2004 6:14:00 AM
Surr: Toluene-d8	98.4	75-125		%REC	1	4/23/2004 6:14:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	267	5.00	mg/L	10	4/15/2004 4:11:00 PM
Fluoride	1.45	0.100	mg/L	1	4/14/2004 2:29:00 AM
Sulfate	1,870	100	mg/L	100	4/15/2004 4:39:00 PM
Nitrate/Nitrite (as N)	1.34	0.100	mg/L	1	4/14/2004 2:29:00 AM
Surr: Dichloroacetic acid (surr)	82.4	80-120	%REC	1	4/14/2004 2:29:00 AM
Surr: Dichloroacetic acid (surr)	105	80-120	%REC	10	4/15/2004 4:11:00 PM
Surr: Dichloroacetic acid (surr)	99.6	80-120	%REC	100	4/15/2004 4:39:00 PM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	422	5.00	mg/L	1	4/15/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	4/15/2004
Alkalinity, Total (As CaCO ₃)	422	5.00	mg/L	1	4/15/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	4/17/2004
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Apr 26 2004

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8667 InstrumentID: Mercury

MBLK	Sample ID: GBLKW1-041604			Test Code: SW7470		Units: mg/L		Analysis Date: 04/16/04 16:14		
Client ID:	Run ID: MERCURY_040416B			SeqNo:	457443	Prep Date: 4/16/2004			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								
<hr/>										
LCS	Sample ID: GLCSW1-041604			Test Code: SW7470		Units: mg/L		Analysis Date: 04/16/04 16:19		
Client ID:	Run ID: MERCURY_040416B			SeqNo:	457444	Prep Date: 4/16/2004			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00521	0.00020	0.005	0	104	83-115		0		
<hr/>										
LCSD	Sample ID: GLCSDW1-041604			Test Code: SW7470		Units: mg/L		Analysis Date: 04/16/04 16:21		
Client ID:	Run ID: MERCURY_040416B			SeqNo:	457445	Prep Date: 4/16/2004			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00527	0.00020	0.005	0	105	83-115	0.00521	1.15	20	
<hr/>										
MS	Sample ID: 0404115-01CMS			Test Code: SW7470		Units: mg/L		Analysis Date: 04/16/04 16:28		
Client ID: MW-53	Run ID: MERCURY_040416B			SeqNo:	457448	Prep Date: 4/16/2004			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00503	0.00020	0.005	-0.000007	101	83-115		0		
<hr/>										
MSD	Sample ID: 0404115-01CMSD			Test Code: SW7470		Units: mg/L		Analysis Date: 04/16/04 16:29		
Client ID: MW-53	Run ID: MERCURY_040416B			SeqNo:	457449	Prep Date: 4/16/2004			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00501	0.00020	0.005	-0.000007	100	83-115	0.00503	0.398	20	
<hr/>										
DUP	Sample ID: 0404115-01CDUP			Test Code: SW7470		Units: mg/L		Analysis Date: 04/16/04 16:26		
Client ID: MW-53	Run ID: MERCURY_040416B			SeqNo:	457447	Prep Date: 4/16/2004			DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	-0.000007	0	20	

The following samples were analyzed in this batch:

0404115-01C	0404115-02C	0404115-03C
0404115-04C	0404115-05C	0404115-06C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8671 InstrumentID: ICP7500

MBLK	Sample ID: MBLKW1-041604	Test Code: SW6020		Units: mg/L		Analysis Date: 04/19/04 14:27			
Client ID:		Run ID:	ICP7500_040419A	SeqNo:	457825	Prep Date:	4/16/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Aluminum	ND		0.010						
Arsenic	ND		0.0050						
Barium	ND		0.0050						
Beryllium	ND		0.0020						
Boron	ND		0.020						
Cadmium	ND		0.0020						
Calcium	ND		0.50						
Chromium	ND		0.0050						
Cobalt	ND		0.0050						
Copper	ND		0.0050						
Iron	0.02974		0.20						J
Lead	ND		0.0050						
Magnesium	ND		0.20						
Manganese	ND		0.0050						
Nickel	ND		0.0050						
Potassium	0.02582		0.20						J
Selenium	0.00252		0.0050						J
Silver	ND		0.0050						
Sodium	ND		0.20						
Vanadium	ND		0.0050						
Zinc	ND		0.0050						

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8671 InstrumentID: ICP7500

LCS	Sample ID: MLCSW1-041604	Test Code: SW6020		Units: mg/L		Analysis Date: 04/16/04 18:12			
Client ID:	Run ID: ICP7500_040416A	SeqNo:	457529	Prep Date: 4/16/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
Aluminum	0.05898	0.010	0.05	0	118	79-126	0	0	
Arsenic	0.04565	0.0050	0.05	0	91.3	80-121	0	0	
Barium	0.05041	0.0050	0.05	0	101	79.8-119	0	0	
Beryllium	0.04794	0.0020	0.05	0	95.9	78.9-120	0	0	
Boron	0.4782	0.020	0.5	0	95.6	80-120	0	0	
Cadmium	0.05178	0.0020	0.05	0	104	79.1-119	0	0	
Calcium	5.376	0.50	5	0	108	80-121	0	0	
Chromium	0.0462	0.0050	0.05	0	92.4	79.3-121	0	0	
Cobalt	0.04848	0.0050	0.05	0	97	82-121	0	0	
Copper	0.04896	0.0050	0.05	0	97.9	83-121	0	0	
Iron	5.204	0.20	5	0	104	80-120	0	0	
Lead	0.04516	0.0050	0.05	0	90.3	80-118	0	0	
Magnesium	5.494	0.20	5	0	110	80-120	0	0	
Manganese	0.05005	0.0050	0.05	0	100	82-119	0	0	
Nickel	0.05042	0.0050	0.05	0	101	85-120	0	0	
Potassium	5.289	0.20	5	0	106	80-120	0	0	
Selenium	0.04833	0.0050	0.05	0	96.7	79.2-118	0	0	
Silver	0.04772	0.0050	0.05	0	95.4	83-117	0	0	
Sodium	5.439	0.20	5	0	109	82.4-120	0	0	
Vanadium	0.04819	0.0050	0.05	0	96.4	82.1-119	0	0	
Zinc	0.05093	0.0050	0.05	0	102	83-118	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8671 InstrumentID: ICP7500

MS	Sample ID: 0404131-01CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 04/16/04 19:41			
Client ID:		Run ID:	ICP7500_040416A	SeqNo:	457543	Prep Date:	4/16/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.05113	0.010	0.05	0.005109	92	79-126		0		
Arsenic	0.04744	0.0050	0.05	0	94.9	80-121		0		
Barium	0.04828	0.0050	0.05	0	96.6	79.8-119		0		
Beryllium	0.0475	0.0020	0.05	0	95	78.9-120		0		
Boron	0.481	0.020	0.5	0.032	89.8	80-120		0		
Cadmium	0.05033	0.0020	0.05	0	101	79.1-119		0		
Chromium	0.05385	0.0050	0.05	0.01025	87.2	79.3-121		0		
Cobalt	0.04516	0.0050	0.05	0	90.3	82-121		0		
Copper	0.04593	0.0050	0.05	0	91.9	83-121		0		
Iron	4.947	0.20	5	0	98.9	80-120		0		
Lead	0.04609	0.0050	0.05	0	92.2	80-118		0		
Magnesium	4.955	0.20	5	0.8779	81.5	80-120		0		
Manganese	0.04783	0.0050	0.05	0.005073	85.5	82-119		0		
Nickel	0.04695	0.0050	0.05	0	93.9	85-120		0		
Potassium	4.895	0.20	5	0	97.9	80-120		0		
Selenium	0.04603	0.0050	0.05	0	92.1	79.2-118		0		
Silver	0.04822	0.0050	0.05	0	96.4	83-117		0		
Sodium	4.889	0.20	5	0.5767	86.2	82.4-120		0		
Vanadium	0.04783	0.0050	0.05	0.002896	89.9	82.1-119		0		
Zinc	0.04672	0.0050	0.05	0	93.4	83-118		0		

MS	Sample ID: 0404131-01CMS	Test Code: SW6020			Units: mg/L		Analysis Date: 04/19/04 13:58			
Client ID:		Run ID:	ICP7500_040419A	SeqNo:	457820	Prep Date:	4/16/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	5.096	0.50	5	0.002515	102	80-121		0		

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8671 InstrumentID: ICP7500

MSD	Sample ID: 0404131-01CMSD	Test Code: SW6020		Units: mg/L		Analysis Date: 04/16/04 19:47		
Client ID:		Run ID:	ICP7500_040416A	SeqNo:	457544	Prep Date:	4/16/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
Aluminum	0.05254	0.010	0.05	0.005109	94.9	79-126	0.05113	2.72
Arsenic	0.04541	0.0050	0.05	0	90.8	80-121	0.04744	4.37
Barium	0.05072	0.0050	0.05	0	101	79.8-119	0.04828	4.93
Beryllium	0.04759	0.0020	0.05	0	95.2	78.9-120	0.0475	0.189
Boron	0.494	0.020	0.5	0.032	92.4	80-120	0.481	2.67
Cadmium	0.05266	0.0020	0.05	0	105	79.1-119	0.05033	4.52
Cobalt	0.04502	0.0050	0.05	0	90	82-121	0.04516	0.31
Copper	0.04587	0.0050	0.05	0	91.7	83-121	0.04593	0.131
Iron	4.923	0.20	5	0	98.5	80-120	4.947	0.486
Lead	0.04702	0.0050	0.05	0	94	80-118	0.04609	2
Magnesium	5.01	0.20	5	0.8779	82.6	80-120	4.955	1.1
Manganese	0.04826	0.0050	0.05	0.005073	86.4	82-119	0.04783	0.895
Nickel	0.04737	0.0050	0.05	0	94.7	85-120	0.04695	0.891
Potassium	4.994	0.20	5	0	99.9	80-120	4.895	2
Selenium	0.04431	0.0050	0.05	0	88.6	79.2-118	0.04603	3.81
Silver	0.04739	0.0050	0.05	0	94.8	83-117	0.04822	1.74
Sodium	4.981	0.20	5	0.5767	88.1	82.4-120	4.889	1.86
Vanadium	0.04639	0.0050	0.05	0.002896	87	82.1-119	0.04783	3.06
Zinc	0.04737	0.0050	0.05	0	94.7	83-118	0.04672	1.38

MSD	Sample ID: 0404131-01CMSD	Test Code: SW6020		Units: mg/L		Analysis Date: 04/19/04 14:03		
Client ID:		Run ID:	ICP7500_040419A	SeqNo:	457821	Prep Date:	4/16/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit %
Calcium	5.173	0.50	5	0.002515	103	80-121	5.096	1.5
Chromium	0.04443	0.0050	0.05	-0.006251	101	79.3-121	0.04301	3.25

ND - Not Detected at the Reporting Limit

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O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8671 InstrumentID: ICP7500

DUP	Sample ID: 0404131-01CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 04/19/04 13:52				
Client ID:		Run ID:	ICP7500_040419A	SeqNo:	457819	Prep Date:	4/16/2004	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit		
Aluminum	0.007016	0.010	0	0	0	0-0	0.007712	0	25	J
Arsenic	ND	0.0050	0	0	0	0-0	-0.00433	0	25	
Barium	ND	0.0050	0	0	0	0-0	0.0003404	0	25	
Beryllium	ND	0.0020	0	0	0	0-0	0.00002879	0	25	
Boron	0.01406	0.020	0	0	0	0-0	0.01603	0	25	J
Cadmium	ND	0.0020	0	0	0	0-0	0.00004656	0	25	
Calcium	ND	0.50	0	0	0	0-0	0.002515	0	25	
Chromium	ND	0.0050	0	0	0	0-0	-0.006251	0	25	
Cobalt	ND	0.0050	0	0	0	0-0	0.00005933	0	25	
Copper	ND	0.0050	0	0	0	0-0	0.000004229	0	25	
Iron	ND	0.20	0	0	0	0-0	0.02691	0	25	
Lead	ND	0.0050	0	0	0	0-0	0.0001613	0	25	
Magnesium	0.05026	0.20	0	0	0	0-0	0.0263	0	25	J
Manganese	ND	0.0050	0	0	0	0-0	0.0002376	0	25	
Nickel	ND	0.0050	0	0	0	0-0	0.0002092	0	25	
Potassium	0.0243	0.20	0	0	0	0-0	0.02659	0	25	J
Selenium	ND	0.0050	0	0	0	0-0	0.001248	0	25	
Silver	ND	0.0050	0	0	0	0-0	0.000008316	0	25	
Sodium	0.07218	0.20	0	0	0	0-0	0.05548	0	25	J
Vanadium	ND	0.0050	0	0	0	0-0	-0.001716	0	25	
Zinc	ND	0.0050	0	0	0	0-0	-0.004053	0	25	

The following samples were analyzed in this batch:

0404115-01C	0404115-02C	0404115-03C
0404115-04C	0404115-05C	0404115-06C

ND - Not Detected at the Reporting Limit

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O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8627 InstrumentID: SV-3

MBLK	Sample ID: SBLKW1-040413	Test Code: SW8270		Units: µg/L		Analysis Date: 04/15/04 11:42			
Client ID:		Run ID:	SV-3_040413A	SeqNo:	456581	Prep Date:	4/13/2004	DF:	1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3-Nitroaniline	ND	10							
4-Methylphenol	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	81.98	0	100	0	82	39-153	0		
Surr: 2-Fluorobiphenyl	75.13	0	100	0	75.1	40-147	0		
Surr: 2-Fluorophenol	41.55	0	100	0	41.5	21-110	0		
Surr: 4-Terphenyl-d14	79.38	0	100	0	79.4	39-141	0		
Surr: Nitrobenzene-d5	73.89	0	100	0	73.9	37-140	0		
Surr: Phenol-d6	24.59	0	100	0	24.6	11-100	0		

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **8627** InstrumentID: **SV-3**

LCS	Sample ID: SLCSW1-040413	Test Code: SW8270		Units: µg/L		Analysis Date: 04/15/04 12:14			
Client ID:		Run ID: SV-3_040413A		SeqNo: 456582		Prep Date: 4/13/2004	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,2,4-Trichlorobenzene	37.56	10	50	0	75.1	50-115	0	0	
2,4,5-Trichlorophenol	87.82	10	100	0	87.8	68-128	0	0	
2,4,6-Trichlorophenol	83.68	10	100	0	83.7	66-125	0	0	
2-Methylnaphthalene	39.01	10	50	0	78	47-122	0	0	
2-Methylphenol	69.31	10	100	0	69.3	51-115	0	0	
2-Nitroaniline	44.24	10	50	0	88.5	64-128	0	0	
2-Nitrophenol	80.28	10	100	0	80.3	60-119	0	0	
3-Nitroaniline	37.36	10	50	0	74.7	61-118	0	0	
4-Methylphenol	92.8	10	150	0	61.9	44-115	0	0	
4-Nitroaniline	41.48	10	50	0	83	61-123	0	0	
4-Nitrophenol	39.73	10	100	0	39.7	17-100	0	0	
Acenaphthene	42.09	10	50	0	84.2	68-115	0	0	
Acenaphthylene	41.03	10	50	0	82.1	67-116	0	0	
Aniline	32.72	10	50	0	65.4	40-130	0	0	
Anthracene	44.18	10	50	0	88.4	70-129	0	0	
Benz(a)anthracene	42.91	10	50	0	85.8	55-131	0	0	
Benzidine	12.89	10	50	0	25.8	10-115	0	0	
Hexachloroethane	36.25	10	50	0	72.5	46-115	0	0	
Indeno(1,2,3-cd)pyrene	43.91	10	50	0	87.8	42-123	0	0	
Isophorone	42.16	10	50	0	84.3	63-117	0	0	
N-Nitrosodi-n-propylamine	42.23	10	50	0	84.5	67-115	0	0	
N-Nitrosodimethylamine	24.83	10	50	0	49.7	28-115	0	0	
N-Nitrosodiphenylamine	46.92	10	50	0	93.8	72-144	0	0	
Naphthalene	39.12	10	50	0	78.2	52-115	0	0	
Nitrobenzene	41.44	10	50	0	82.9	65-115	0	0	
Pentachlorophenol	87.26	10	100	0	87.3	65-123	0	0	
Phenanthrene	42.65	10	50	0	85.3	69-119	0	0	
Phenol	32.84	10	100	0	32.8	16-115	0	0	
Pyrene	40.35	10	50	0	80.7	51-130	0	0	
Surr: 2,4,6-Tribromophenol	83.1	0	100	0	83.1	39-153	0	0	
Surr: 2-Fluorobiphenyl	76.42	0	100	0	76.4	40-147	0	0	
Surr: 2-Fluorophenol	46.83	0	100	0	46.8	21-110	0	0	
Surr: 4-Terphenyl-d14	78.26	0	100	0	78.3	39-141	0	0	
Surr: Nitrobenzene-d5	75.34	0	100	0	75.3	37-140	0	0	
Surr: Phenol-d6	30	0	100	0	30	11-100	0	0	

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B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8627 InstrumentID: SV-3

LCSD	Sample ID: SLCSDW1-040413	Test Code: SW8270		Units: µg/L		Analysis Date: 04/15/04 12:46				
Client ID:		Run ID:	SV-3_040413A	SeqNo:	456583	Prep Date:	4/13/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	42.3	10	50	0	84.6	50-115	37.56	11.9	30	
2,4,5-Trichlorophenol	89.93	10	100	0	89.9	68-128	87.82	2.38	30	
2,4,6-Trichlorophenol	86.79	10	100	0	86.8	66-125	83.68	3.65	30	
2-Methylnaphthalene	43.34	10	50	0	86.7	47-122	39.01	10.5	30	
2-Methylphenol	73.05	10	100	0	73	51-115	69.31	5.26	30	
2-Nitroaniline	45.66	10	50	0	91.3	64-128	44.24	3.16	30	
2-Nitrophenol	85.36	10	100	0	85.4	60-119	80.28	6.13	30	
3-Nitroaniline	36.9	10	50	0	73.8	61-118	37.36	1.23	30	
4-Methylphenol	100.7	10	150	0	67.2	44-115	92.8	8.21	30	
4-Nitroaniline	42.3	10	50	0	84.6	61-123	41.48	1.95	30	
4-Nitrophenol	41.32	10	100	0	41.3	17-100	39.73	3.92	30	
Acenaphthene	44.14	10	50	0	88.3	68-115	42.09	4.76	30	
Acenaphthylene	43.44	10	50	0	86.9	67-116	41.03	5.71	30	
Aniline	25.29	10	50	0	50.6	40-130	32.72	25.6	30	
Anthracene	47.24	10	50	0	94.5	70-129	44.18	6.7	30	
Benz(a)anthracene	44.51	10	50	0	89	55-131	42.91	3.66	30	
Benzidine	8.361	10	50	0	16.7	10-115	12.89	0	30	J
Hexachloroethane	43.6	10	50	0	87.2	46-115	36.25	18.4	30	
Indeno(1,2,3-cd)pyrene	46.1	10	50	0	92.2	42-123	43.91	4.87	30	
Isophorone	43.62	10	50	0	87.2	63-117	42.16	3.41	30	
N-Nitrosodi-n-propylamine	44.94	10	50	0	89.9	67-115	42.23	6.22	30	
N-Nitrosodimethylamine	26.03	10	50	0	52.1	28-115	24.83	4.74	30	
N-Nitrosodiphenylamine	49.47	10	50	0	98.9	72-144	46.92	5.28	30	
Naphthalene	42.1	10	50	0	84.2	52-115	39.12	7.34	30	
Nitrobenzene	42.96	10	50	0	85.9	65-115	41.44	3.58	30	
Pentachlorophenol	91.38	10	100	0	91.4	65-123	87.26	4.61	30	
Phenanthrene	45.93	10	50	0	91.9	69-119	42.65	7.42	30	
Phenol	33.47	10	100	0	33.5	16-115	32.84	1.88	30	
Pyrene	41.87	10	50	0	83.7	51-130	40.35	3.71	30	
Surr: 2,4,6-Tribromophenol	89.02	0	100	0	89	39-153	83.1	6.89	30	
Surr: 2-Fluorobiphenyl	79.28	0	100	0	79.3	40-147	76.42	3.67	30	
Surr: 2-Fluorophenol	48.04	0	100	0	48	21-110	46.83	2.54	30	
Surr: 4-Terphenyl-d14	81.93	0	100	0	81.9	39-141	78.26	4.58	30	
Surr: Nitrobenzene-d5	77.95	0	100	0	78	37-140	75.34	3.41	30	
Surr: Phenol-d6	30.62	0	100	0	30.6	11-100	30	2.06	30	

The following samples were analyzed in this batch:

0404115-01E	0404115-02E	0404115-03E
0404115-04E	0404115-05E	0404115-06E

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20057 InstrumentID: VOA_I

MBLK	Sample ID: VBLKW-0422	Test Code: SW8260		Units: µg/L		Analysis Date: 04/22/04 16:00				
Client ID:		Run ID:	VOA_I_040422A	SeqNo:	460191	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	47.15	5.0	50	0	94.3	71-126		0		
Surr: 4-Bromofluorobenzene	39.18	5.0	50	0	78.4	74-125		0		
Surr: Dibromofluoromethane	48.5	5.0	50	0	97	73-126		0		
Surr: Toluene-d8	47.44	5.0	50	0	94.9	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R20057** InstrumentID: **VOA_I**

LCS	Sample ID: VLCSW-0422			Test Code: SW8260	Units: µg/L		Analysis Date: 04/22/04 15:32			
Client ID:		Run ID:	VOA_I_040422A	SeqNo:	460188	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	48.05	5.0	50	0	96.1	75.2-120		0		
1,1,2,2-Tetrachloroethane	50.05	5.0	50	0	100	72.4-121		0		
1,1,2-Trichloroethane	51.57	5.0	50	0	103	80-120		0		
1,1-Dichloroethane	49.81	5.0	50	0	99.6	76.9-120		0		
1,1-Dichloroethene	48.91	5.0	50	0	97.8	72.6-123		0		
1,2-Dichloroethane	49.73	5.0	50	0	99.5	80-120		0		
2-Butanone	96.38	10	100	0	96.4	69-131		0		
2-Chloroethyl vinyl ether	92.71	10	100	0	92.7	60-135		0		
2-Hexanone	73.95	10	100	0	74	55.6-126		0		
4-Methyl-2-pentanone	95.82	10	100	0	95.8	67.4-121		0		
Acetone	92	10	100	0	92	64.4-140		0		
Benzene	54.61	5.0	50	0	109	80-120		0		
Bromodichloromethane	48.27	5.0	50	0	96.5	80-120		0		
Bromoform	51.15	5.0	50	0	102	77.9-121		0		
Bromomethane	49.8	5.0	50	0	99.6	63.3-137		0		
Carbon disulfide	95.83	10	100	0	95.8	74.1-123		0		
Carbon tetrachloride	49.66	5.0	50	0	99.3	74.7-120		0		
Chlorobenzene	50.37	5.0	50	0	101	80-120		0		
Chloroethane	47.94	5.0	50	0	95.9	74.7-126		0		
Chloroform	48.74	5.0	50	0	97.5	80-120		0		
Chloromethane	44.87	5.0	50	0	89.7	64.5-132		0		
cis-1,3-Dichloropropene	48.11	5.0	50	0	96.2	80-120		0		
Dibromochloromethane	50.2	5.0	50	0	100	80-120		0		
Ethylbenzene	49.51	5.0	50	0	99	80-120		0		
m,p-Xylene	102.1	10	100	0	102	80-120		0		
Methylene chloride	60.91	10	50	0	122	76.2-120		0		S
Styrene	50.04	5.0	50	0	100	80-120		0		
Tetrachloroethene	54.15	5.0	50	0	108	68.5-130		0		
Toluene	50.44	5.0	50	0	101	80-120		0		
trans-1,3-Dichloropropene	45.73	5.0	50	0	91.5	80-120		0		
Trichloroethene	51.96	5.0	50	0	104	78.9-120		0		
Vinyl acetate	111.1	10	100	0	111	62.4-133		0		
Vinyl chloride	48.61	2.0	50	0	97.2	72.7-128		0		
Xylenes, Total	151.6	15	150	0	101	80-120		0		
Surr: 1,2-Dichloroethane-d4	45.23	5.0	50	0	90.5	71-126		0		
Surr: 4-Bromofluorobenzene	47.22	5.0	50	0	94.4	74-125		0		
Surr: Dibromofluoromethane	47.09	5.0	50	0	94.2	73-126		0		
Surr: Toluene-d8	49.39	5.0	50	0	98.8	75-125		0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID:	R20057	InstrumentID:	VOA_I						
MS	Sample ID:	0404235-01AMS		Test Code:	SW8260	Units:	µg/L	Analysis Date: 04/22/04 17:24	
Client ID:		Run ID:	VOA_I_040422A	SeqNo:	460193	Prep Date:		DF:	10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	497.2	50	500	0	99.4	75.2-120		0	
1,1,2,2-Tetrachloroethane	577.6	50	500	0	116	72.4-121		0	
1,1,2-Trichloroethane	585.6	50	500	0	117	80-120		0	
1,1-Dichloroethane	517.1	50	500	0	103	76.9-120		0	
1,1-Dichloroethene	481.8	50	500	0	96.4	72.6-123		0	
1,2-Dichloroethane	571	50	500	0	114	80-120		0	
2-Butanone	1247	100	1000	0	125	69-131		0	
2-Chloroethyl vinyl ether	1067	100	1000	0	107	60-135		0	
2-Hexanone	958.2	100	1000	0	95.8	55.6-126		0	
4-Methyl-2-pentanone	1111	100	1000	0	111	67.4-121		0	
Acetone	1357	100	1000	0	136	64.4-140		0	
Benzene	560.4	50	500	0	112	80-120		0	
Bromodichloromethane	620.2	50	500	78.59	108	80-120		0	
Bromoform	626.5	50	500	0	125	77.9-121		0	S
Bromomethane	507.8	50	500	0	102	63.3-137		0	
Carbon disulfide	993.9	100	1000	0	99.4	74.1-123		0	
Carbon tetrachloride	510.4	50	500	0	102	74.7-120		0	
Chlorobenzene	562	50	500	0	112	80-120		0	
Chloroethane	488.3	50	500	0	97.7	74.7-126		0	
Chloroform	2502	50	500	2009	98.6	80-120		0	EO
Chloromethane	472.8	50	500	0	94.6	64.5-132		0	
cis-1,3-Dichloropropene	524.2	50	500	0	105	80-120		0	
Dibromochloromethane	596.9	50	500	0	119	80-120		0	
Ethylbenzene	511.9	50	500	0	102	80-120		0	
m,p-Xylene	1078	100	1000	0	108	80-120		0	
Methylene chloride	560.7	100	500	0	112	76.2-120		0	
Styrene	541.3	50	500	0	108	80-120		0	
Tetrachloroethene	563	50	500	0	113	68.5-130		0	
Toluene	531.7	50	500	0	106	80-120		0	
trans-1,3-Dichloropropene	517.9	50	500	0	104	80-120		0	
Trichloroethene	519.9	50	500	0	104	78.9-120		0	
Vinyl acetate	1236	100	1000	0	124	62.4-133		0	
Vinyl chloride	470.7	20	500	0	94.1	72.7-128		0	
Xylenes, Total	1618	150	1500	0	108	80-120		0	
Surr: 1,2-Dichloroethane-d4	490	50	500	0	98	71-126		0	
Surr: 4-Bromofluorobenzene	485	50	500	0	97	74-125		0	
Surr: Dibromofluoromethane	484.3	50	500	0	96.9	73-126		0	
Surr: Toluene-d8	496.2	50	500	0	99.2	75-125		0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20057 InstrumentID: VOA_I

MSD	Sample ID: 0404235-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 04/22/04 17:52			
Client ID:	Run ID: VOA_I_040422A	SeqNo:	460194	Prep Date:		DF:	10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	469.4	50	500	0	93.9	75.2-120	497.2	5.75	20
1,1,2,2-Tetrachloroethane	552.2	50	500	0	110	72.4-121	577.6	4.51	20
1,1,2-Trichloroethane	543.3	50	500	0	109	80-120	585.6	7.5	20
1,1-Dichloroethane	504.4	50	500	0	101	76.9-120	517.1	2.49	20
1,1-Dichloroethene	473.9	50	500	0	94.8	72.6-123	481.8	1.67	20
1,2-Dichloroethane	526.5	50	500	0	105	80-120	571	8.11	20
2-Butanone	1155	100	1000	0	115	69-131	1247	7.65	20
2-Chloroethyl vinyl ether	997.6	100	1000	0	99.8	60-135	1067	6.69	20
2-Hexanone	967.3	100	1000	0	96.7	55.6-126	958.2	0.948	20
4-Methyl-2-pentanone	1048	100	1000	0	105	67.4-121	1111	5.9	20
Acetone	1218	100	1000	0	122	64.4-140	1357	10.8	20
Benzene	537.6	50	500	0	108	80-120	560.4	4.15	20
Bromodichloromethane	590.8	50	500	78.59	102	80-120	620.2	4.84	20
Bromoform	577.1	50	500	0	115	77.9-121	626.5	8.2	20
Bromomethane	499.2	50	500	0	99.8	63.3-137	507.8	1.7	20
Carbon disulfide	951.7	100	1000	0	95.2	74.1-123	993.9	4.34	20
Carbon tetrachloride	491.9	50	500	0	98.4	74.7-120	510.4	3.69	20
Chlorobenzene	535	50	500	0	107	80-120	562	4.91	20
Chloroethane	476.6	50	500	0	95.3	74.7-126	488.3	2.41	20
Chloroform	2350	50	500	2009	68.1	80-120	2502	6.29	20 SEO
Chloromethane	447.1	50	500	0	89.4	64.5-132	472.8	5.58	20
cis-1,3-Dichloropropene	499.7	50	500	0	99.9	80-120	524.2	4.79	20
Dibromochloromethane	568.6	50	500	0	114	80-120	596.9	4.86	20
Ethylbenzene	490.1	50	500	0	98	80-120	511.9	4.36	20
m,p-Xylene	1026	100	1000	0	103	80-120	1078	4.93	20
Methylene chloride	517.7	100	500	0	104	76.2-120	560.7	7.98	20
Styrene	518.6	50	500	0	104	80-120	541.3	4.3	20
Tetrachloroethene	554.3	50	500	0	111	68.5-130	563	1.56	20
Toluene	494.1	50	500	0	98.8	80-120	531.7	7.34	20
trans-1,3-Dichloropropene	487.2	50	500	0	97.4	80-120	517.9	6.11	20
Trichloroethene	512.5	50	500	0	103	78.9-120	519.9	1.43	20
Vinyl acetate	1187	100	1000	0	119	62.4-133	1236	4.1	20
Vinyl chloride	471.4	20	500	0	94.3	72.7-128	470.7	0.162	20
Xylenes, Total	1535	150	1500	0	102	80-120	1618	5.26	20
Surr: 1,2-Dichloroethane-d4	461.9	50	500	0	92.4	71-126	490	5.92	20
Surr: 4-Bromofluorobenzene	468.4	50	500	0	93.7	74-125	485	3.49	20
Surr: Dibromofluoromethane	479.9	50	500	0	96	73-126	484.3	0.909	20
Surr: Toluene-d8	476	50	500	0	95.2	75-125	496.2	4.16	20

The following samples were analyzed in this batch:

0404115-01A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20062 InstrumentID: VOA_I

MBLK	Sample ID: VBLKW-0422	Test Code: SW8260		Units: µg/L		Analysis Date: 04/23/04 0:45			
Client ID:	Run ID: VOA_I_040422B	SeqNo:	460275	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0							
1,1,2,2-Tetrachloroethane	ND	5.0							
1,1,2-Trichloroethane	ND	5.0							
1,1-Dichloroethane	ND	5.0							
1,1-Dichloroethene	ND	5.0							
1,2-Dichloroethane	ND	5.0							
2-Butanone	ND	10							
2-Chloroethyl vinyl ether	ND	10							
2-Hexanone	ND	10							
4-Methyl-2-pentanone	ND	10							
Acetone	ND	10							
Benzene	ND	5.0							
Bromodichloromethane	ND	5.0							
Bromoform	ND	5.0							
Bromomethane	ND	5.0							
Carbon disulfide	ND	10							
Carbon tetrachloride	ND	5.0							
Chlorobenzene	ND	5.0							
Chloroethane	ND	5.0							
Chloroform	ND	5.0							
Chloromethane	ND	5.0							
cis-1,3-Dichloropropene	ND	5.0							
Dibromochloromethane	ND	5.0							
Ethylbenzene	ND	5.0							
m,p-Xylene	ND	10							
Methylene chloride	ND	10							
Styrene	ND	5.0							
Tetrachloroethene	ND	5.0							
Toluene	ND	5.0							
trans-1,3-Dichloropropene	ND	5.0							
Trichloroethene	ND	5.0							
Vinyl acetate	ND	10							
Vinyl chloride	ND	2.0							
Xylenes, Total	ND	15							
Surr: 1,2-Dichloroethane-d4	47.05	5.0	50	0	94.1	71-126	0		
Surr: 4-Bromofluorobenzene	38.84	5.0	50	0	77.7	74-125	0		
Surr: Dibromofluoromethane	46.94	5.0	50	0	93.9	73-126	0		
Surr: Toluene-d8	46.76	5.0	50	0	93.5	75-125	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20062 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-0422	Test Code: SW8260			Units: µg/L		Analysis Date: 04/22/04 23:50			
Client ID:		Run ID:	VOA_I_040422B	SeqNo:	460274	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.3	5.0	50	0	98.6	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	46.85	5.0	50	0	93.7	72.4-121	0	0		
1,1,2-Trichloroethane	51.82	5.0	50	0	104	80-120	0	0		
1,1-Dichloroethane	49.83	5.0	50	0	99.7	76.9-120	0	0		
1,1-Dichloroethene	50.23	5.0	50	0	100	72.6-123	0	0		
1,2-Dichloroethane	51.02	5.0	50	0	102	80-120	0	0		
2-Butanone	101.6	10	100	0	102	69-131	0	0		
2-Chloroethyl vinyl ether	94.31	10	100	0	94.3	60-135	0	0		
2-Hexanone	79.58	10	100	0	79.6	55.6-126	0	0		
4-Methyl-2-pentanone	92.07	10	100	0	92.1	67.4-121	0	0		
Acetone	110.3	10	100	0	110	64.4-140	0	0		
Benzene	55.05	5.0	50	0	110	80-120	0	0		
Bromodichloromethane	50.82	5.0	50	0	102	80-120	0	0		
Bromoform	51.74	5.0	50	0	103	77.9-121	0	0		
Bromomethane	53.34	5.0	50	0	107	63.3-137	0	0		
Carbon disulfide	99.46	10	100	0	99.5	74.1-123	0	0		
Carbon tetrachloride	51.3	5.0	50	0	103	74.7-120	0	0		
Chlorobenzene	51.12	5.0	50	0	102	80-120	0	0		
Chloroethane	49.89	5.0	50	0	99.8	74.7-126	0	0		
Chloroform	49.28	5.0	50	0	98.6	80-120	0	0		
Chloromethane	48.25	5.0	50	0	96.5	64.5-132	0	0		
cis-1,3-Dichloropropene	47.99	5.0	50	0	96	80-120	0	0		
Dibromochloromethane	52.12	5.0	50	0	104	80-120	0	0		
Ethylbenzene	49.65	5.0	50	0	99.3	80-120	0	0		
m,p-Xylene	98.82	10	100	0	98.8	80-120	0	0		
Methylene chloride	54.44	10	50	0	109	76.2-120	0	0		
Styrene	49.01	5.0	50	0	98	80-120	0	0		
Tetrachloroethene	52.47	5.0	50	0	105	68.5-130	0	0		
Toluene	49.69	5.0	50	0	99.4	80-120	0	0		
trans-1,3-Dichloropropene	46.67	5.0	50	0	93.3	80-120	0	0		
Trichloroethene	55.14	5.0	50	0	110	78.9-120	0	0		
Vinyl acetate	76.71	10	100	0	76.7	62.4-133	0	0		
Vinyl chloride	50.87	2.0	50	0	102	72.7-128	0	0		
Xylenes, Total	147.7	15	150	0	98.4	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	46.83	5.0	50	0	93.7	71-126	0	0		
Surr: 4-Bromofluorobenzene	48.47	5.0	50	0	96.9	74-125	0	0		
Surr: Dibromofluoromethane	48.74	5.0	50	0	97.5	73-126	0	0		
Surr: Toluene-d8	49.05	5.0	50	0	98.1	75-125	0	0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20062 InstrumentID: VOA_I

MS	Sample ID: 0404114-01AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 04/23/04 2:08			
Client ID:		Run ID:	VOA_I_040422B	SeqNo:	460276	Prep Date:	DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	1278	120	1250	0	102	75.2-120	0	0	
1,1,2,2-Tetrachloroethane	1225	120	1250	0	98	72.4-121	0	0	
1,1,2-Trichloroethane	1334	120	1250	0	107	80-120	0	0	
1,1-Dichloroethane	1388	120	1250	0	111	76.9-120	0	0	
1,1-Dichloroethene	2353	120	1250	977.5	110	72.6-123	0	0	
1,2-Dichloroethane	1347	120	1250	0	108	80-120	0	0	
2-Butanone	2371	250	2500	0	94.9	69-131	0	0	
2-Chloroethyl vinyl ether	ND	250	2500	0	0	60-135	0	0	S
2-Hexanone	1921	250	2500	0	76.8	55.6-126	0	0	
4-Methyl-2-pentanone	2201	250	2500	0	88.1	67.4-121	0	0	
Acetone	2195	250	2500	0	87.8	64.4-140	0	0	
Benzene	1354	120	1250	0	108	80-120	0	0	
Bromodichloromethane	1300	120	1250	0	104	80-120	0	0	
Bromoform	1341	120	1250	0	107	77.9-121	0	0	
Bromomethane	1319	120	1250	0	106	63.3-137	0	0	
Carbon disulfide	2483	250	2500	0	99.3	74.1-123	0	0	
Carbon tetrachloride	1254	120	1250	0	100	74.7-120	0	0	
Chlorobenzene	1288	120	1250	0	103	80-120	0	0	
Chloroethane	1243	120	1250	0	99.4	74.7-126	0	0	
Chloroform	1298	120	1250	0	104	80-120	0	0	
Chloromethane	1192	120	1250	0	95.4	64.5-132	0	0	
cis-1,3-Dichloropropene	1100	120	1250	0	88	80-120	0	0	
Dibromochloromethane	1344	120	1250	0	108	80-120	0	0	
Ethylbenzene	1238	120	1250	0	99	80-120	0	0	
m,p-Xylene	2657	250	2500	0	106	80-120	0	0	
Methylene chloride	1430	250	1250	0	114	76.2-120	0	0	
Styrene	1286	120	1250	0	103	80-120	0	0	
Tetrachloroethene	1369	120	1250	0	110	68.5-130	0	0	
Toluene	1291	120	1250	0	103	80-120	0	0	
trans-1,3-Dichloropropene	1174	120	1250	0	93.9	80-120	0	0	
Trichloroethene	1286	120	1250	0	103	78.9-120	0	0	
Vinyl acetate	2790	250	2500	0	112	62.4-133	0	0	
Vinyl chloride	1238	50	1250	0	99	72.7-128	0	0	
Xylenes, Total	3931	380	3750	0	105	80-120	0	0	
Surr: 1,2-Dichloroethane-d4	1260	120	1250	0	101	71-126	0	0	
Surr: 4-Bromofluorobenzene	1223	120	1250	0	97.8	74-125	0	0	
Surr: Dibromofluoromethane	1248	120	1250	0	99.8	73-126	0	0	
Surr: Toluene-d8	1245	120	1250	0	99.6	75-125	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R20062 InstrumentID: VOA_I

MSD	Sample ID: 0404114-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 04/23/04 2:35			
Client ID:		Run ID:	VOA_I_040422B	SeqNo:	460277	Prep Date:	DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,1,1-Trichloroethane	1186	120	1250	0	94.9	75.2-120	1278	7.48	20
1,1,2,2-Tetrachloroethane	1220	120	1250	0	97.6	72.4-121	1225	0.461	20
1,1,2-Trichloroethane	1290	120	1250	0	103	80-120	1334	3.35	20
1,1-Dichloroethane	1324	120	1250	0	106	76.9-120	1388	4.73	20
1,1-Dichloroethene	2396	120	1250	977.5	113	72.6-123	2353	1.81	20
1,2-Dichloroethane	1285	120	1250	0	103	80-120	1347	4.68	20
2-Butanone	2201	250	2500	0	88	69-131	2371	7.45	20
2-Chloroethyl vinyl ether	ND	250	2500	0	0	60-135	0	0	20 S
2-Hexanone	1768	250	2500	0	70.7	55.6-126	1921	8.27	20
4-Methyl-2-pentanone	2186	250	2500	0	87.4	67.4-121	2201	0.702	20
Acetone	2002	250	2500	0	80.1	64.4-140	2195	9.21	20
Benzene	1315	120	1250	0	105	80-120	1354	2.96	20
Bromodichloromethane	1237	120	1250	0	99	80-120	1300	4.96	20
Bromoform	1287	120	1250	0	103	77.9-121	1341	4.14	20
Bromomethane	1349	120	1250	0	108	63.3-137	1319	2.22	20
Carbon disulfide	2421	250	2500	0	96.8	74.1-123	2483	2.53	20
Carbon tetrachloride	1201	120	1250	0	96.1	74.7-120	1254	4.3	20
Chlorobenzene	1267	120	1250	0	101	80-120	1288	1.6	20
Chloroethane	1218	120	1250	0	97.5	74.7-126	1243	1.98	20
Chloroform	1234	120	1250	0	98.7	80-120	1298	5.12	20
Chloromethane	1128	120	1250	0	90.2	64.5-132	1192	5.58	20
cis-1,3-Dichloropropene	1076	120	1250	0	86.1	80-120	1100	2.23	20
Dibromochloromethane	1274	120	1250	0	102	80-120	1344	5.36	20
Ethylbenzene	1216	120	1250	0	97.3	80-120	1238	1.8	20
m,p-Xylene	2475	250	2500	0	99	80-120	2657	7.08	20
Methylene chloride	1316	250	1250	0	105	76.2-120	1430	8.29	20
Styrene	1244	120	1250	0	99.5	80-120	1286	3.34	20
Tetrachloroethene	1352	120	1250	0	108	68.5-130	1369	1.28	20
Toluene	1234	120	1250	0	98.7	80-120	1291	4.52	20
trans-1,3-Dichloropropene	1120	120	1250	0	89.6	80-120	1174	4.68	20
Trichloroethene	1276	120	1250	0	102	78.9-120	1286	0.817	20
Vinyl acetate	2773	250	2500	0	111	62.4-133	2790	0.607	20
Vinyl chloride	1200	50	1250	0	96	72.7-128	1238	3.07	20
Xylenes, Total	3693	380	3750	0	98.5	80-120	3931	6.24	20
Surr: 1,2-Dichloroethane-d4	1172	120	1250	0	93.8	71-126	1260	7.19	20
Surr: 4-Bromofluorobenzene	1177	120	1250	0	94.2	74-125	1223	3.77	20
Surr: Dibromofluoromethane	1164	120	1250	0	93.1	73-126	1248	6.98	20
Surr: Toluene-d8	1241	120	1250	0	99.3	75-125	1245	0.254	20

The following samples were analyzed in this batch:

0404115-02A	0404115-03A	0404115-04A
0404115-05A	0404115-06A	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19878 InstrumentID: IC201

MBLK Sample ID: WBLKW1-041304 Test Code: E300 Units: mg/L Analysis Date: 04/13/04 18:53

Client ID: Run ID: IC201_040413A SeqNo: 455434 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.71	0.10	5	0	94.2	80-120	0			

LCS Sample ID: WLCSW1-041304 Test Code: E300 Units: mg/L Analysis Date: 04/13/04 19:21

Client ID: Run ID: IC201_040413A SeqNo: 455435 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.02	0.50	10	0	90.2	80-120	0			
Fluoride	1.94	0.10	2	0	97	80-120	0			
Sulfate	9.62	1.0	10	0	96.2	80-120	0			
Surr: Dichloroacetic acid (surr)	4.99	0.10	5	0	99.8	80-120	0			

LCSD Sample ID: WLCSDW1-04130 Test Code: E300 Units: mg/L Analysis Date: 04/13/04 19:50

Client ID: Run ID: IC201_040413A SeqNo: 455436 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.98	0.50	10	0	89.8	80-120	9.02	0.444	20	
Fluoride	1.84	0.10	2	0	92	80-120	1.94	5.29	20	
Sulfate	9.57	1.0	10	0	95.7	80-120	9.62	0.521	20	
Surr: Dichloroacetic acid (surr)	4.97	0.10	5	0	99.4	80-120	4.99	0.402	20	

MS Sample ID: 0404115-06BMS Test Code: E300 Units: mg/L Analysis Date: 04/14/04 3:26

Client ID: MW-54A Run ID: IC201_040413A SeqNo: 455451 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	331.5	0.50	10	326.1	54.2	75-125	0			SEO
Fluoride	3.43	0.10	2	1.45	99	75-125	0			
Sulfate	2622	1.0	10	2663	-407	75-125	0			SEO
Nitrate/Nitrite (as N)	5.16	0.10	4	1.34	95.5	75-125	0			
Surr: Dichloroacetic acid (surr)	4.03	0.10	5	0	80.6	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19878 InstrumentID: IC201

MSD Sample ID: 0404115-06BMSD Test Code: E300 Units: mg/L Analysis Date: 04/14/04 3:54

Client ID: MW-54A Run ID: IC201_040413A SeqNo: 455452 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	330	0.50	10	326.1	38.8	75-125	331.5	0.466	20	SEO
Fluoride	3.5	0.10	2	1.45	102	75-125	3.43	2.02	20	
Sulfate	2608	1.0	10	2663	-545	75-125	2622	0.528	20	SEO
Nitrate/Nitrite (as N)	5.14	0.10	4	1.34	95	75-125	5.16	0.388	20	
Surr: Dichloroacetic acid (surr)	5.87	0.10	5	0	117	80-120	4.03	37.2	20	R

DUP Sample ID: 0404115-02BDUP Test Code: E300 Units: mg/L Analysis Date: 04/13/04 21:44

Client ID: NCL-49 Run ID: IC201_040413A SeqNo: 455440 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	214.9	0.50	0	0	0	0-0	215	0.0558	20	E
Fluoride	0.93	0.10	0	0	0	0-0	0.9	3.28	20	
Sulfate	2237	1.0	0	0	0	0-0	2235	0.0859	20	E
Nitrate/Nitrite (as N)	9.36	0.10	0	0	0	0-0	9.37	0.107	20	
Surr: Dichloroacetic acid (surr)	5.13	0.10	5	0	103	80-120	5.04	1.77	20	

DUP Sample ID: 0404115-06BDUP Test Code: E300 Units: mg/L Analysis Date: 04/14/04 2:57

Client ID: MW-54A Run ID: IC201_040413A SeqNo: 455450 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	324.9	0.50	0	0	0	0-0	326.1	0.366	20	E
Fluoride	1.5	0.10	0	0	0	0-0	1.45	3.39	20	
Sulfate	2650	1.0	0	0	0	0-0	2663	0.479	20	E
Nitrate/Nitrite (as N)	1.35	0.10	0	0	0	0-0	1.34	0.743	20	
Surr: Dichloroacetic acid (surr)	5.85	0.10	5	0	117	80-120	4.12	34.7	20	R

The following samples were analyzed in this batch:

0404115-01B	0404115-02B	0404115-03B
0404115-04B	0404115-05B	0404115-06B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19930 InstrumentID: Wet Chemistry

MBLK Sample ID: WMBW1-041504		Test Code: E310.1		Units: mg/L		Analysis Date: 04/15/04 0:00		
Client ID: Run ID: WET CHEMISTRY_0404 SeqNo: 456584				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0						
Alkalinity, Carbonate (As CaCO3)	ND	5.0						
Alkalinity, Hydroxide (As CaCO3)	ND	5.0						
Alkalinity, Total (As CaCO3)	ND	5.0						

LCS Sample ID: WLCSW1-041504		Test Code: E310.1		Units: mg/L		Analysis Date: 04/15/04 0:00		
Client ID: Run ID: WET CHEMISTRY_0404 SeqNo: 456585				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Total (As CaCO3)	980.6	5.0	1000	0	98.1	80-120	0	

DUP Sample ID: 0404115-03BDUP		Test Code: E310.1		Units: mg/L		Analysis Date: 04/15/04 0:00		
Client ID: NCL-32		Run ID: WET CHEMISTRY_0404 SeqNo: 456596		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	323.6	5.0	0	0	0	0-0	323.6	0 20
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0 20
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0 20
Alkalinity, Total (As CaCO3)	323.6	5.0	0	0	0	0-0	323.6	0 20

The following samples were analyzed in this batch:

0404115-01B	0404115-02B	0404115-03B
0404115-04B	0404115-05B	0404115-06B

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19935 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-041404		Test Code: E300		Units: mg/L		Analysis Date: 04/14/04 17:22		
Client ID:		Run ID: IC201_040414A		SeqNo: 456851		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.98	0.10	5	0	99.6	80-120		0		

LCS		Sample ID: WLCSW1-041404		Test Code: E300		Units: mg/L		Analysis Date: 04/14/04 17:51		
Client ID:		Run ID: IC201_040414A		SeqNo: 456852		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9	0.50	10	0	90	80-120		0		
Fluoride	2.06	0.10	2	0	103	80-120		0		
Sulfate	9.5	1.0	10	0	95	80-120		0		
Surr: Dichloroacetic acid (surr)	4.94	0.10	5	0	98.8	80-120		0		

LCSD		Sample ID: WLCSDW1-04140		Test Code: E300		Units: mg/L		Analysis Date: 04/14/04 18:19		
Client ID:		Run ID: IC201_040414A		SeqNo: 456853		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.99	0.50	10	0	89.9	80-120	9	0.111	20	
Fluoride	1.87	0.10	2	0	93.5	80-120	2.06	9.67	20	
Sulfate	9.54	1.0	10	0	95.4	80-120	9.5	0.42	20	
Surr: Dichloroacetic acid (surr)	5	0.10	5	0	100	80-120	4.94	1.21	20	

MS		Sample ID: 0404115-01BMS		Test Code: E300		Units: mg/L		Analysis Date: 04/15/04 11:54		
Client ID: MW-53		Run ID: IC201_040414A		SeqNo: 456874		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1032	50	1000	163	86.9	75-125		0		
Fluoride	229	10	200	0	114	75-125		0		
Sulfate	2145	100	1000	1113	103	75-125		0		
Nitrate/Nitrite (as N)	408	10	400	0	102	75-125		0		
Surr: Dichloroacetic acid (surr)	499	10	500	0	99.8	80-120		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19935 InstrumentID: IC201

MSD		Sample ID: 0404115-01BMSD		Test Code: E300		Units: mg/L		Analysis Date: 04/15/04 12:23		
Client ID: MW-53		Run ID: IC201_040414A		SeqNo: 456875		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1004	50	1000	163	84.1	75-125	1032	2.75	20	
Fluoride	219	10	200	0	110	75-125	229	4.46	20	
Sulfate	2101	100	1000	1113	98.8	75-125	2145	2.07	20	
Nitrate/Nitrite (as N)	397	10	400	0	99.2	75-125	408	2.73	20	
Surr: Dichloroacetic acid (surr)	514	10	500	0	103	80-120	499	2.96	20	

DUP		Sample ID: 0404077-01BDUP		Test Code: E300		Units: mg/L		Analysis Date: 04/15/04 1:55		
Client ID:		Run ID: IC201_040414A		SeqNo: 456869		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	646	50	0	0	0	0-0	646	0	20	
Fluoride	49	10	0	0	0	0-0	50	2.02	20	
Sulfate	1995	100	0	0	0	0-0	1998	0.15	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	517	10	500	0	103	80-120	522	0.962	20	

DUP		Sample ID: 0404115-01BDUP		Test Code: E300		Units: mg/L		Analysis Date: 04/15/04 11:26		
Client ID: MW-53		Run ID: IC201_040414A		SeqNo: 456873		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	165	50	0	0	0	0-0	163	1.22	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1112	100	0	0	0	0-0	1113	0.0899	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	519	10	500	0	104	80-120	530	2.1	20	

DUP		Sample ID: 0404115-06BDUP		Test Code: E300		Units: mg/L		Analysis Date: 04/15/04 17:08		
Client ID: MW-54A		Run ID: IC201_040414A		SeqNo: 456898		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	323	50	0	0	0	0-0	324	0.309	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1862	100	0	0	0	0-0	1866	0.215	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	507	10	500	0	101	80-120	498	1.79	20	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19935 InstrumentID: IC201

DUP	Sample ID: 0404099-03ADUP	Test Code: E300			Units: mg/L		Analysis Date: 04/15/04 7:38			
Client ID:		Run ID:	IC201_040414A	SeqNo:	456933	Prep Date:	DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	605	50	0	0	0	0-0	606	0.165	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	4123	100	0	0	0	0-0	4144	0.508	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	519	10	500	0	104	80-120	513	1.16	20	

The following samples were analyzed in this batch:

0404115-01B	0404115-02B	0404115-03B
0404115-04B	0404115-05B	0404115-06B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0404115
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R19956	InstrumentID: UV-2101PC									
MBLK	Sample ID: WMBW1-041704	Test Code: E335.3				Units: mg/L		Analysis Date: 04/17/04 0:00		
Client ID:	Run ID: UV-2101PC_040417A	SeqNo:	457309	Prep Date:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Cyanide	ND	0.020								
LCS	Sample ID: WLCSW1-041704	Test Code: E335.3				Units: mg/L		Analysis Date: 04/17/04 0:00		
Client ID:	Run ID: UV-2101PC_040417A	SeqNo:	457310	Prep Date:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Cyanide	0.2039	0.020	0.2	0	102	80-120	0			
MS	Sample ID: 0404115-06DMS	Test Code: E335.3				Units: mg/L		Analysis Date: 04/17/04 0:00		
Client ID: MW-54A	Run ID: UV-2101PC_040417A	SeqNo:	457326	Prep Date:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Cyanide	0.2	0.020	0.2	0.001	99.5	75-125	0			
MSD	Sample ID: 0404115-06DMSD	Test Code: E335.3				Units: mg/L		Analysis Date: 04/17/04 0:00		
Client ID: MW-54A	Run ID: UV-2101PC_040417A	SeqNo:	457327	Prep Date:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Cyanide	0.1987	0.020	0.2	0.001	98.8	75-125	0.2	0.652	25	
DUP	Sample ID: 0404115-06DDUP	Test Code: E335.3				Units: mg/L		Analysis Date: 04/17/04 0:00		
Client ID: MW-54A	Run ID: UV-2101PC_040417A	SeqNo:	457325	Prep Date:			DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Cyanide	ND	0.020	0	0	0	0-0	0.001	0	20	
The following samples were analyzed in this batch:			0404115-01D	0404115-02D	0404115-03D			0404115-04D	0404115-05D	0404115-06D

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

e-Lab, Inc.

Sample Receipt Checklist

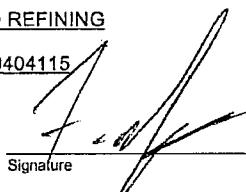
Client Name NAVAJO REFINING

Date/Time Received: 4/13/2004 9:00:00 AM

Work Order Number 0404115

Received by: RSZ

Checklist completed by



4/13/04

Reviewed by



4/14/04

Matrix: N

Carrier name FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>3.2, 2.9 c</u>	<u>003</u>	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>

Adjusted? _____ Checked by _____

Login Notes: Sample NCL-44 and MW-54A were received broken for 8270, only one container was received.

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____

Date contacted: _____

Person contacted _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action _____



e-Lab, Inc.

10450 Standliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

February 16, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0402010**

Dear Jeff Byrd,

e-Lab, Inc. received 5 samples on 2/3/2004 9:20:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 46.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patrina A. Dathorne

Lora Terrill

VP Lab Operations

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0402010

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0402010-01	MW-59	Water		2/1/2004 11:00	2/3/2004 09:20	<input type="checkbox"/>
0402010-02	TEL-4	Water		2/2/2004 09:10	2/3/2004 09:20	<input type="checkbox"/>
0402010-03	TEL-3	Water		2/2/2004 11:00	2/3/2004 09:20	<input type="checkbox"/>
0402010-04	TEL-2	Water		2/2/2004 11:15	2/3/2004 09:20	<input type="checkbox"/>
0402010-05	TEL-1	Water		2/2/2004 11:30	2/3/2004 09:20	<input type="checkbox"/>

e-Lab, Inc.**Date:** February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-01

Client Sample ID: MW-59
Collection Date: 2/1/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed	
MERCURY, TOTAL							
Mercury	ND	0.000200		mg/L	1	2/11/2004 2:53:48 PM	
ICP METALS, TOTAL							
Aluminum	0.232	0.0500		mg/L	5	2/12/2004 3:56:00 PM	
Arsenic	0.0258	0.00500		mg/L	1	2/9/2004 4:13:00 PM	
Barium	0.0233	0.00500		mg/L	1	2/9/2004 4:13:00 PM	
Beryllium	ND	0.00200		mg/L	1	2/9/2004 4:13:00 PM	
Boron	0.330	0.0200		mg/L	1	2/9/2004 4:13:00 PM	
Cadmium	ND	0.00100		mg/L	1	2/9/2004 4:13:00 PM	
Calcium	469	25.0		mg/L	50	2/12/2004 3:47:00 PM	
Chromium	ND	0.00200		mg/L	1	2/9/2004 4:13:00 PM	
Cobalt	0.00287	0.00200		mg/L	1	2/9/2004 4:13:00 PM	
Copper	0.00579	0.00200		mg/L	1	2/9/2004 4:13:00 PM	
Iron	1.08	0.200		mg/L	1	2/9/2004 4:13:00 PM	
Lead	ND	0.00500		mg/L	1	2/9/2004 4:13:00 PM	
Magnesium	298	10.0		mg/L	50	2/12/2004 3:47:00 PM	
Manganese	0.407	0.0250		mg/L	5	2/12/2004 3:56:00 PM	
Nickel	0.00652	0.00500		mg/L	1	2/9/2004 4:13:00 PM	
Potassium	0.686	0.200		mg/L	1	2/9/2004 4:13:00 PM	
Selenium	ND	0.00500		mg/L	1	2/9/2004 4:13:00 PM	
Silver	ND	0.00500		mg/L	1	2/9/2004 4:13:00 PM	
Sodium	197	2.00		mg/L	10	2/12/2004 3:52:00 PM	
Vanadium	ND	0.00500		mg/L	1	2/9/2004 4:13:00 PM	
Zinc	0.0223	0.00500		mg/L	1	2/9/2004 4:13:00 PM	
SEMOVOLATILE ORGANICS BY GC/MS							
			SW8270			Prep Date: 2/5/2004	Analyst: HLBW
1,2,4-Trichlorobenzene	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
2,4,5-Trichlorophenol	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
2,4,6-Trichlorophenol	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
2-Methylnaphthalene	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
2-Methylphenol	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
2-Nitroaniline	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
2-Nitrophenol	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
3-Nitroaniline	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
4-Methylphenol	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
4-Nitroaniline	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
4-Nitrophenol	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
Acenaphthene	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
Acenaphthylene	ND	10		µg/L	1	2/12/2004 8:11:00 PM	
Aniline	ND	10		µg/L	1	2/12/2004 8:11:00 PM	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-01

Client Sample ID: MW-59
Collection Date: 2/1/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Benz(a)anthracene	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Benzidine	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Hexachloroethane	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Isophorone	ND	10		µg/L	1	2/12/2004 8:11:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/12/2004 8:11:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	2/12/2004 8:11:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Naphthalene	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Nitrobenzene	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Pentachlorophenol	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Phenanthrene	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Phenol	140	10		µg/L	1	2/12/2004 8:11:00 PM
Pyrene	ND	10		µg/L	1	2/12/2004 8:11:00 PM
Surr: 2,4,6-Tribromophenol	114	39-153		%REC	1	2/12/2004 8:11:00 PM
Surr: 2-Fluorobiphenyl	89.0	40-147		%REC	1	2/12/2004 8:11:00 PM
Surr: 2-Fluorophenol	44.7	21-100		%REC	1	2/12/2004 8:11:00 PM
Surr: 4-Terphenyl-d14	91.5	39-141		%REC	1	2/12/2004 8:11:00 PM
Surr: Nitrobenzene-d5	86.5	37-140		%REC	1	2/12/2004 8:11:00 PM
Surr: Phenol-d6	29.5	11-100		%REC	1	2/12/2004 8:11:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	3,800	250	µg/L	50
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1
Chlorobenzene	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-01

Client Sample ID: MW-59
Collection Date: 2/1/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
Chloroform	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
Chloromethane	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
Ethylbenzene	380	250		µg/L	50	2/5/2004 5:08:00 AM
m,p-Xylene	56	10		µg/L	1	2/3/2004 7:15:00 PM
Methylene chloride	ND	10		µg/L	1	2/3/2004 7:15:00 PM
Styrene	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
Toluene	18	5.0		µg/L	1	2/3/2004 7:15:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
Trichloroethene	ND	5.0		µg/L	1	2/3/2004 7:15:00 PM
Vinyl acetate	ND	10		µg/L	1	2/3/2004 7:15:00 PM
Vinyl chloride	ND	2.0		µg/L	1	2/3/2004 7:15:00 PM
Xylenes, Total	59	15		µg/L	1	2/3/2004 7:15:00 PM
Surr: 1,2-Dichloroethane-d4	96.8	70-130		%REC	1	2/3/2004 7:15:00 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	50	2/5/2004 5:08:00 AM
Surr: 4-Bromofluorobenzene	92.8	70-130		%REC	1	2/3/2004 7:15:00 PM
Surr: 4-Bromofluorobenzene	90.3	70-130		%REC	50	2/5/2004 5:08:00 AM
Surr: Dibromofluoromethane	102	70-130		%REC	50	2/5/2004 5:08:00 AM
Surr: Dibromofluoromethane	95.2	70-130		%REC	1	2/3/2004 7:15:00 PM
Surr: Toluene-d8	95.0	70-130		%REC	1	2/3/2004 7:15:00 PM
Surr: Toluene-d8	92.9	70-130		%REC	50	2/5/2004 5:08:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	168	2.50	mg/L	5	2/3/2004 2:56:00 PM
Fluoride	1.50	0.100	mg/L	1	2/3/2004 2:27:00 PM
Sulfate	1,430	100	mg/L	100	2/6/2004 2:14:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	2/3/2004 2:27:00 PM
Surr: Dichloroacetic acid (surr)	98.2	80-120	%REC	1	2/3/2004 2:27:00 PM
Surr: Dichloroacetic acid (surr)	99.2	80-120	%REC	5	2/3/2004 2:56:00 PM
Surr: Dichloroacetic acid (surr)	103	80-120	%REC	100	2/6/2004 2:14:00 PM

ALKALINITY**E310.1**

Analyst: MG

Alkalinity, Bicarbonate (As CaCO ₃)	500	5.00	mg/L	1	2/10/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	2/10/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	2/10/2004
Alkalinity, Total (As CaCO ₃)	500	5.00	mg/L	1	2/10/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.020	mg/L	1	2/9/2004
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Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-02

Client Sample ID: TEL-4
Collection Date: 2/2/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	2/11/2004 3:00:01 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0344	0.0100		mg/L	1	2/9/2004 4:26:00 PM
Arsenic	0.00783	0.00500		mg/L	1	2/9/2004 4:26:00 PM
Barium	0.296	0.00500		mg/L	1	2/10/2004 1:43:00 PM
Beryllium	ND	0.00200		mg/L	1	2/9/2004 4:26:00 PM
Boron	0.693	0.0200		mg/L	1	2/9/2004 4:26:00 PM
Cadmium	ND	0.00100		mg/L	1	2/10/2004 1:43:00 PM
Calcium	178	5.00		mg/L	10	2/12/2004 4:05:00 PM
Chromium	0.00389	0.00200		mg/L	1	2/9/2004 4:26:00 PM
Cobalt	ND	0.00200		mg/L	1	2/9/2004 4:26:00 PM
Copper	0.0177	0.00200		mg/L	1	2/9/2004 4:26:00 PM
Iron	0.451	0.200		mg/L	1	2/9/2004 4:26:00 PM
Lead	ND	0.00500		mg/L	1	2/10/2004 1:43:00 PM
Magnesium	202	10.0		mg/L	50	2/12/2004 4:00:00 PM
Manganese	0.227	0.0250		mg/L	5	2/12/2004 4:09:00 PM
Nickel	0.00800	0.00500		mg/L	1	2/9/2004 4:26:00 PM
Potassium	0.361	0.200		mg/L	1	2/9/2004 4:26:00 PM
Selenium	ND	0.00500		mg/L	1	2/9/2004 4:26:00 PM
Silver	ND	0.00500		mg/L	1	2/10/2004 1:43:00 PM
Sodium	339	10.0		mg/L	50	2/12/2004 4:00:00 PM
Vanadium	ND	0.00500		mg/L	1	2/9/2004 4:26:00 PM
Zinc	0.0116	0.00500		mg/L	1	2/9/2004 4:26:00 PM
SEMIVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	2/12/2004 8:36:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	2/12/2004 8:36:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
2-Methylphenol	ND	10		µg/L	1	2/12/2004 8:36:00 PM
2-Nitroaniline	ND	10		µg/L	1	2/12/2004 8:36:00 PM
2-Nitrophenol	ND	10		µg/L	1	2/12/2004 8:36:00 PM
3-Nitroaniline	ND	10		µg/L	1	2/12/2004 8:36:00 PM
4-Methylphenol	ND	10		µg/L	1	2/12/2004 8:36:00 PM
4-Nitroaniline	ND	10		µg/L	1	2/12/2004 8:36:00 PM
4-Nitrophenol	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Acenaphthene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Acenaphthylene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Aniline	ND	10		µg/L	1	2/12/2004 8:36:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-02

Client Sample ID: TEL-4
Collection Date: 2/2/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Benz(a)anthracene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Benzidine	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Hexachloroethane	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Isophorone	ND	10		µg/L	1	2/12/2004 8:36:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/12/2004 8:36:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	2/12/2004 8:36:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Naphthalene	22	10		µg/L	1	2/12/2004 8:36:00 PM
Nitrobenzene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Pentachlorophenol	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Phenanthrene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Phenol	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Pyrene	ND	10		µg/L	1	2/12/2004 8:36:00 PM
Surr: 2,4,6-Tribromophenol	113	39-153		%REC	1	2/12/2004 8:36:00 PM
Surr: 2-Fluorobiphenyl	91.4	40-147		%REC	1	2/12/2004 8:36:00 PM
Surr: 2-Fluorophenol	38.0	21-100		%REC	1	2/12/2004 8:36:00 PM
Surr: 4-Terphenyl-d14	90.7	39-141		%REC	1	2/12/2004 8:36:00 PM
Surr: Nitrobenzene-d5	87.2	37-140		%REC	1	2/12/2004 8:36:00 PM
Surr: Phenol-d6	26.3	11-100		%REC	1	2/12/2004 8:36:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
2-Butanone	ND	10		µg/L	1	2/3/2004 8:35:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	2/3/2004 8:35:00 PM
2-Hexanone	ND	10		µg/L	1	2/3/2004 8:35:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/3/2004 8:35:00 PM
Acetone	ND	10		µg/L	1	2/3/2004 8:35:00 PM
Benzene	2,900	120		µg/L	25	2/5/2004 5:36:00 AM
Bromodichloromethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Bromoform	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Bromomethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Carbon disulfide	ND	10		µg/L	1	2/3/2004 8:35:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Chlorobenzene	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-02

Client Sample ID: TEL-4
Collection Date: 2/2/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Chloroform	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Chloromethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Ethylbenzene	200	50		µg/L	10	2/3/2004 9:02:00 PM
m,p-Xylene	350	10		µg/L	1	2/3/2004 8:35:00 PM
Methylene chloride	ND	10		µg/L	1	2/3/2004 8:35:00 PM
Styrene	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Toluene	53	5.0		µg/L	1	2/3/2004 8:35:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Trichloroethene	ND	5.0		µg/L	1	2/3/2004 8:35:00 PM
Vinyl acetate	ND	10		µg/L	1	2/3/2004 8:35:00 PM
Vinyl chloride	ND	2.0		µg/L	1	2/3/2004 8:35:00 PM
Xylenes, Total	360	15		µg/L	1	2/3/2004 8:35:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	1	2/3/2004 8:35:00 PM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	10	2/3/2004 9:02:00 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	25	2/5/2004 5:36:00 AM
Surr: 4-Bromofluorobenzene	91.8	70-130		%REC	1	2/3/2004 8:35:00 PM
Surr: 4-Bromofluorobenzene	90.0	70-130		%REC	10	2/3/2004 9:02:00 PM
Surr: 4-Bromofluorobenzene	91.3	70-130		%REC	25	2/5/2004 5:36:00 AM
Surr: Dibromofluoromethane	97.2	70-130		%REC	10	2/3/2004 9:02:00 PM
Surr: Dibromofluoromethane	101	70-130		%REC	25	2/5/2004 5:36:00 AM
Surr: Dibromofluoromethane	97.7	70-130		%REC	1	2/3/2004 8:35:00 PM
Surr: Toluene-d8	94.6	70-130		%REC	1	2/3/2004 8:35:00 PM
Surr: Toluene-d8	93.5	70-130		%REC	10	2/3/2004 9:02:00 PM
Surr: Toluene-d8	94.6	70-130		%REC	25	2/5/2004 5:36:00 AM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	481	5.00	mg/L	10
Fluoride	1.21	0.100	mg/L	1
Sulfate	198	5.00	mg/L	5
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	95.0	80-120	%REC	1

ALKALINITY

		E310.1		Analyst: MG
Alkalinity, Bicarbonate (As CaCO ₃)	890	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-02

Client Sample ID: TEL-4
Collection Date: 2/2/2004 9:10:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Alkalinity, Total (As CaCO ₃)	890	5.00		mg/L	1	2/10/2004
CYANIDE, TOTAL			E335.3			Analyst: LMD
Cyanide	ND	0.020		mg/L	1	2/9/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-03

Client Sample ID: TEL-3
Collection Date: 2/2/2004 11:00:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	Prep Date: 2/10/2004 Analyst: JCJ 2/11/2004 3:01:32 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0383	0.0100		mg/L	1	Prep Date: 2/5/2004 Analyst: ALR 2/9/2004 4:31:00 PM
Arsenic	ND	0.00500		mg/L	1	2/9/2004 4:31:00 PM
Barium	0.0118	0.00500		mg/L	1	2/10/2004 1:47:00 PM
Beryllium	ND	0.00200		mg/L	1	2/9/2004 4:31:00 PM
Boron	0.799	0.0200		mg/L	1	2/9/2004 4:31:00 PM
Cadmium	ND	0.00100		mg/L	1	2/10/2004 1:47:00 PM
Calcium	485	25.0		mg/L	50	2/12/2004 4:14:00 PM
Chromium	ND	0.00200		mg/L	1	2/9/2004 4:31:00 PM
Cobalt	ND	0.00200		mg/L	1	2/9/2004 4:31:00 PM
Copper	0.00345	0.00200		mg/L	1	2/9/2004 4:31:00 PM
Iron	0.602	0.200		mg/L	1	2/9/2004 4:31:00 PM
Lead	ND	0.00500		mg/L	1	2/10/2004 1:47:00 PM
Magnesium	109	2.00		mg/L	10	2/12/2004 4:18:00 PM
Manganese	ND	0.00500		mg/L	1	2/9/2004 4:31:00 PM
Nickel	ND	0.00500		mg/L	1	2/9/2004 4:31:00 PM
Potassium	2.66	0.200		mg/L	1	2/9/2004 4:31:00 PM
Selenium	ND	0.00500		mg/L	1	2/9/2004 4:31:00 PM
Silver	ND	0.00500		mg/L	1	2/10/2004 1:47:00 PM
Sodium	93.7	2.00		mg/L	10	2/12/2004 4:18:00 PM
Vanadium	ND	0.00500		mg/L	1	2/9/2004 4:31:00 PM
Zinc	0.0103	0.00500		mg/L	1	2/9/2004 4:31:00 PM
SEMIVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	Prep Date: 2/5/2004 Analyst: HLBW 2/12/2004 9:01:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	2/12/2004 9:01:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	2/12/2004 9:01:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
2-Methylphenol	ND	10		µg/L	1	2/12/2004 9:01:00 PM
2-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:01:00 PM
2-Nitrophenol	ND	10		µg/L	1	2/12/2004 9:01:00 PM
3-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:01:00 PM
4-Methylphenol	ND	10		µg/L	1	2/12/2004 9:01:00 PM
4-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:01:00 PM
4-Nitrophenol	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Acenaphthene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Acenaphthylene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Aniline	ND	10		µg/L	1	2/12/2004 9:01:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-03

Client Sample ID: TEL-3
Collection Date: 2/2/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Benz(a)anthracene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Benzidine	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Hexachloroethane	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Isophorone	ND	10		µg/L	1	2/12/2004 9:01:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/12/2004 9:01:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	2/12/2004 9:01:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Naphthalene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Nitrobenzene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Pentachlorophenol	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Phenanthrene	35	10		µg/L	1	2/12/2004 9:01:00 PM
Phenol	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Pyrene	ND	10		µg/L	1	2/12/2004 9:01:00 PM
Surr: 2,4,6-Tribromophenol	125	39-153		%REC	1	2/12/2004 9:01:00 PM
Surr: 2-Fluorobiphenyl	101	40-147		%REC	1	2/12/2004 9:01:00 PM
Surr: 2-Fluorophenol	45.9	21-100		%REC	1	2/12/2004 9:01:00 PM
Surr: 4-Terphenyl-d14	97.0	39-141		%REC	1	2/12/2004 9:01:00 PM
Surr: Nitrobenzene-d5	100	37-140		%REC	1	2/12/2004 9:01:00 PM
Surr: Phenol-d6	30.9	11-100		%REC	1	2/12/2004 9:01:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	160	5.0	µg/L	1
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1
Chlorobenzene	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

AR Page 9 of 16

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-03

Client Sample ID: TEL-3
Collection Date: 2/2/2004 11:00:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
Chloroform	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
Chloromethane	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
Ethylbenzene	9.5	5.0		µg/L	1	2/3/2004 9:29:00 PM
m,p-Xylene	58	10		µg/L	1	2/3/2004 9:29:00 PM
Methylene chloride	ND	10		µg/L	1	2/3/2004 9:29:00 PM
Styrene	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
Toluene	5.3	5.0		µg/L	1	2/3/2004 9:29:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
Trichloroethene	ND	5.0		µg/L	1	2/3/2004 9:29:00 PM
Vinyl acetate	ND	10		µg/L	1	2/3/2004 9:29:00 PM
Vinyl chloride	ND	2.0		µg/L	1	2/3/2004 9:29:00 PM
Xylenes, Total	63	15		µg/L	1	2/3/2004 9:29:00 PM
Surr: 1,2-Dichloroethane-d4	98.5	70-130		%REC	1	2/3/2004 9:29:00 PM
Surr: 4-Bromofluorobenzene	88.2	70-130		%REC	1	2/3/2004 9:29:00 PM
Surr: Dibromofluoromethane	97.8	70-130		%REC	1	2/3/2004 9:29:00 PM
Surr: Toluene-d8	95.2	70-130		%REC	1	2/3/2004 9:29:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	137	2.50	mg/L	5
Fluoride	2.47	0.100	mg/L	1
Sulfate	998	50.0	mg/L	50
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	99.4	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	100	80-120	%REC	50

ALKALINITY

		E310.1		Analyst: MG
Alkalinity, Bicarbonate (As CaCO ₃)	560	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	560	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.020	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-04

Client Sample ID: TEL-2
Collection Date: 2/2/2004 11:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	2/11/2004 3:03:03 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	2/9/2004 4:36:00 PM
Arsenic	0.0114	0.00500		mg/L	1	2/9/2004 4:36:00 PM
Barium	0.126	0.00500		mg/L	1	2/10/2004 1:52:00 PM
Beryllium	ND	0.00200		mg/L	1	2/9/2004 4:36:00 PM
Boron	0.739	0.0200		mg/L	1	2/9/2004 4:36:00 PM
Cadmium	ND	0.00100		mg/L	1	2/10/2004 1:52:00 PM
Calcium	166	25.0		mg/L	50	2/12/2004 4:22:00 PM
Chromium	ND	0.00200		mg/L	1	2/9/2004 4:36:00 PM
Cobalt	ND	0.00200		mg/L	1	2/9/2004 4:36:00 PM
Copper	0.00333	0.00200		mg/L	1	2/9/2004 4:36:00 PM
Iron	0.279	0.200		mg/L	1	2/9/2004 4:36:00 PM
Lead	ND	0.00500		mg/L	1	2/10/2004 1:52:00 PM
Magnesium	186	2.00		mg/L	10	2/12/2004 4:27:00 PM
Manganese	0.0244	0.00500		mg/L	1	2/9/2004 4:36:00 PM
Nickel	ND	0.00500		mg/L	1	2/9/2004 4:36:00 PM
Potassium	0.906	0.200		mg/L	1	2/9/2004 4:36:00 PM
Selenium	ND	0.00500		mg/L	1	2/9/2004 4:36:00 PM
Silver	ND	0.00500		mg/L	1	2/10/2004 1:52:00 PM
Sodium	408	10.0		mg/L	50	2/12/2004 4:22:00 PM
Vanadium	ND	0.00500		mg/L	1	2/9/2004 4:36:00 PM
Zinc	0.00912	0.00500		mg/L	1	2/9/2004 4:36:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	2/12/2004 9:27:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	2/12/2004 9:27:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
2-Methylphenol	ND	10		µg/L	1	2/12/2004 9:27:00 PM
2-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:27:00 PM
2-Nitrophenol	ND	10		µg/L	1	2/12/2004 9:27:00 PM
3-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:27:00 PM
4-Methylphenol	ND	10		µg/L	1	2/12/2004 9:27:00 PM
4-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:27:00 PM
4-Nitrophenol	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Acenaphthene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Acenaphthylene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Aniline	ND	10		µg/L	1	2/12/2004 9:27:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-04

Client Sample ID: TEL-2
Collection Date: 2/2/2004 11:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Benz(a)anthracene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Benzidine	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Hexachloroethane	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Isophorone	ND	10		µg/L	1	2/12/2004 9:27:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/12/2004 9:27:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	2/12/2004 9:27:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Naphthalene	18	10		µg/L	1	2/12/2004 9:27:00 PM
Nitrobenzene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Pentachlorophenol	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Phenanthrene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Phenol	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Pyrene	ND	10		µg/L	1	2/12/2004 9:27:00 PM
Surr: 2,4,6-Tribromophenol	113	39-153		%REC	1	2/12/2004 9:27:00 PM
Surr: 2-Fluorobiphenyl	93.6	40-147		%REC	1	2/12/2004 9:27:00 PM
Surr: 2-Fluorophenol	38.4	21-100		%REC	1	2/12/2004 9:27:00 PM
Surr: 4-Terphenyl-d14	91.0	39-141		%REC	1	2/12/2004 9:27:00 PM
Surr: Nitrobenzene-d5	85.0	37-140		%REC	1	2/12/2004 9:27:00 PM
Surr: Phenol-d6	26.2	11-100		%REC	1	2/12/2004 9:27:00 PM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	2/3/2004 7:41:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	2/3/2004 7:41:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	2/3/2004 7:41:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	2/3/2004 7:41:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	2/3/2004 7:41:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	2/3/2004 7:41:00 PM
2-Butanone	ND	10	µg/L	2/3/2004 7:41:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	2/3/2004 7:41:00 PM
2-Hexanone	ND	10	µg/L	2/3/2004 7:41:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	2/3/2004 7:41:00 PM
Acetone	ND	10	µg/L	2/3/2004 7:41:00 PM
Benzene	1,500	100	µg/L	2/5/2004 6:03:00 AM
Bromodichloromethane	ND	5.0	µg/L	2/3/2004 7:41:00 PM
Bromoform	ND	5.0	µg/L	2/3/2004 7:41:00 PM
Bromomethane	ND	5.0	µg/L	2/3/2004 7:41:00 PM
Carbon disulfide	ND	10	µg/L	2/3/2004 7:41:00 PM
Carbon tetrachloride	ND	5.0	µg/L	2/3/2004 7:41:00 PM
Chlorobenzene	ND	5.0	µg/L	2/3/2004 7:41:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-04

Client Sample ID: TEL-2
Collection Date: 2/2/2004 11:15:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
Chloroform	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
Chloromethane	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
Ethylbenzene	45	5.0		µg/L	1	2/3/2004 7:41:00 PM
m,p-Xylene	210	10		µg/L	1	2/3/2004 7:41:00 PM
Methylene chloride	ND	10		µg/L	1	2/3/2004 7:41:00 PM
Styrene	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
Toluene	93	5.0		µg/L	1	2/3/2004 7:41:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
Trichloroethene	ND	5.0		µg/L	1	2/3/2004 7:41:00 PM
Vinyl acetate	ND	10		µg/L	1	2/3/2004 7:41:00 PM
Vinyl chloride	ND	2.0		µg/L	1	2/3/2004 7:41:00 PM
Xylenes, Total	230	15		µg/L	1	2/3/2004 7:41:00 PM
Surr: 1,2-Dichloroethane-d4	96.2	70-130		%REC	1	2/3/2004 7:41:00 PM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	20	2/5/2004 6:03:00 AM
Surr: 4-Bromofluorobenzene	90.5	70-130		%REC	1	2/3/2004 7:41:00 PM
Surr: 4-Bromofluorobenzene	91.4	70-130		%REC	20	2/5/2004 6:03:00 AM
Surr: Dibromofluoromethane	99.4	70-130		%REC	20	2/5/2004 6:03:00 AM
Surr: Dibromofluoromethane	96.0	70-130		%REC	1	2/3/2004 7:41:00 PM
Surr: Toluene-d8	93.6	70-130		%REC	1	2/3/2004 7:41:00 PM
Surr: Toluene-d8	94.2	70-130		%REC	20	2/5/2004 6:03:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	202	2.50	mg/L	5	2/3/2004 7:12:00 PM
Fluoride	1.57	0.100	mg/L	1	2/3/2004 6:44:00 PM
Sulfate	700	50.0	mg/L	50	2/6/2004 5:33:00 PM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	2/3/2004 6:44:00 PM
Surr: Dichloroacetic acid (surr)	97.6	80-120	%REC	1	2/3/2004 6:44:00 PM
Surr: Dichloroacetic acid (surr)	103	80-120	%REC	5	2/3/2004 7:12:00 PM
Surr: Dichloroacetic acid (surr)	100	80-120	%REC	50	2/6/2004 5:33:00 PM

ALKALINITY**E310.1**

Analyst: MG

Alkalinity, Bicarbonate (As CaCO ₃)	850	5.00	mg/L	1	2/10/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	2/10/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	2/10/2004
Alkalinity, Total (As CaCO ₃)	850	5.00	mg/L	1	2/10/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.020	mg/L	1	2/9/2004
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Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

AR Page 13 of 16

e-Lab, Inc.

Date: February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-05

Client Sample ID: TEL-1
Collection Date: 2/2/2004 11:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	2/11/2004 3:07:40 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	2/9/2004 4:40:00 PM
Arsenic	ND	0.00500		mg/L	1	2/9/2004 4:40:00 PM
Barium	0.0131	0.00500		mg/L	1	2/10/2004 1:56:00 PM
Beryllium	ND	0.00200		mg/L	1	2/9/2004 4:40:00 PM
Boron	0.667	0.0200		mg/L	1	2/9/2004 4:40:00 PM
Cadmium	ND	0.00100		mg/L	1	2/10/2004 1:56:00 PM
Calcium	266	10.0		mg/L	20	2/12/2004 4:40:00 PM
Chromium	ND	0.00200		mg/L	1	2/9/2004 4:40:00 PM
Cobalt	ND	0.00200		mg/L	1	2/9/2004 4:40:00 PM
Copper	0.00276	0.00200		mg/L	1	2/9/2004 4:40:00 PM
Iron	0.417	0.200		mg/L	1	2/9/2004 4:40:00 PM
Lead	ND	0.00500		mg/L	1	2/10/2004 1:56:00 PM
Magnesium	116	2.00		mg/L	10	2/12/2004 4:44:00 PM
Manganese	0.0613	0.00500		mg/L	1	2/9/2004 4:40:00 PM
Nickel	ND	0.00500		mg/L	1	2/9/2004 4:40:00 PM
Potassium	0.754	0.200		mg/L	1	2/9/2004 4:40:00 PM
Selenium	ND	0.00500		mg/L	1	2/9/2004 4:40:00 PM
Silver	ND	0.00500		mg/L	1	2/10/2004 1:56:00 PM
Sodium	531	4.00		mg/L	20	2/12/2004 4:40:00 PM
Vanadium	ND	0.00500		mg/L	1	2/9/2004 4:40:00 PM
Zinc	0.00788	0.00500		mg/L	1	2/9/2004 4:40:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
2,4,5-Trichlorophenol	ND	10		µg/L	1	2/12/2004 9:52:00 PM
2,4,6-Trichlorophenol	ND	10		µg/L	1	2/12/2004 9:52:00 PM
2-Methylnaphthalene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
2-Methylphenol	ND	10		µg/L	1	2/12/2004 9:52:00 PM
2-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:52:00 PM
2-Nitrophenol	ND	10		µg/L	1	2/12/2004 9:52:00 PM
3-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:52:00 PM
4-Methylphenol	ND	10		µg/L	1	2/12/2004 9:52:00 PM
4-Nitroaniline	ND	10		µg/L	1	2/12/2004 9:52:00 PM
4-Nitrophenol	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Acenaphthene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Acenaphthylene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Aniline	ND	10		µg/L	1	2/12/2004 9:52:00 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-05

Client Sample ID: TEL-1
Collection Date: 2/2/2004 11:30:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Benz(a)anthracene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Benzidine	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Hexachloroethane	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Isophorone	ND	10		µg/L	1	2/12/2004 9:52:00 PM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	2/12/2004 9:52:00 PM
N-Nitrosodimethylamine	ND	10		µg/L	1	2/12/2004 9:52:00 PM
N-Nitrosodiphenylamine	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Naphthalene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Nitrobenzene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Pentachlorophenol	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Phenanthrene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Phenol	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Pyrene	ND	10		µg/L	1	2/12/2004 9:52:00 PM
Surr: 2,4,6-Tribromophenol	112	39-153		%REC	1	2/12/2004 9:52:00 PM
Surr: 2-Fluorobiphenyl	96.3	40-147		%REC	1	2/12/2004 9:52:00 PM
Surr: 2-Fluorophenol	42.4	21-100		%REC	1	2/12/2004 9:52:00 PM
Surr: 4-Terphenyl-d14	96.1	39-141		%REC	1	2/12/2004 9:52:00 PM
Surr: Nitrobenzene-d5	95.9	37-140		%REC	1	2/12/2004 9:52:00 PM
Surr: Phenol-d6	28.0	11-100		%REC	1	2/12/2004 9:52:00 PM
VOLATILES BY GC/MS						
			SW8260			Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
2-Butanone	ND	10		µg/L	1	2/3/2004 8:08:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	2/3/2004 8:08:00 PM
2-Hexanone	ND	10		µg/L	1	2/3/2004 8:08:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	2/3/2004 8:08:00 PM
Acetone	ND	10		µg/L	1	2/3/2004 8:08:00 PM
Benzene	34	5.0		µg/L	1	2/3/2004 8:08:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Bromoform	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Bromomethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Carbon disulfide	ND	10		µg/L	1	2/3/2004 8:08:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Chlorobenzene	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 * - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 P - Dual Column results percent difference > 40%
 E - Value above quantitation range
 H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** February 16, 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL
Lab ID: 0402010-05

Client Sample ID: TEL-1
Collection Date: 2/2/2004 11:30:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Chloroform	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Chloromethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Ethylbenzene	7.3	5.0		µg/L	1	2/3/2004 8:08:00 PM
m,p-Xylene	17	10		µg/L	1	2/3/2004 8:08:00 PM
Methylene chloride	ND	10		µg/L	1	2/3/2004 8:08:00 PM
Styrene	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Toluene	5.9	5.0		µg/L	1	2/3/2004 8:08:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Trichloroethene	ND	5.0		µg/L	1	2/3/2004 8:08:00 PM
Vinyl acetate	ND	10		µg/L	1	2/3/2004 8:08:00 PM
Vinyl chloride	ND	2.0		µg/L	1	2/3/2004 8:08:00 PM
Xylenes, Total	24	15		µg/L	1	2/3/2004 8:08:00 PM
Surr: 1,2-Dichloroethane-d4	98.4	70-130		%REC	1	2/3/2004 8:08:00 PM
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	2/3/2004 8:08:00 PM
Surr: Dibromofluoromethane	98.1	70-130		%REC	1	2/3/2004 8:08:00 PM
Surr: Toluene-d8	94.8	70-130		%REC	1	2/3/2004 8:08:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	178	2.50		mg/L	5	2/3/2004 8:38:00 PM
Fluoride	1.34	0.100		mg/L	1	2/3/2004 8:09:00 PM
Sulfate	1,320	50.0		mg/L	50	2/6/2004 6:02:00 PM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	2/3/2004 8:09:00 PM
Surr: Dichloroacetic acid (surr)	98.4	80-120		%REC	1	2/3/2004 8:09:00 PM
Surr: Dichloroacetic acid (surr)	91.4	80-120		%REC	5	2/3/2004 8:38:00 PM
Surr: Dichloroacetic acid (surr)	98.2	80-120		%REC	50	2/6/2004 6:02:00 PM
ALKALINITY						
			E310.1			Analyst: MG
Alkalinity, Bicarbonate (As CaCO ₃)	470	5.00		mg/L	1	2/10/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	2/10/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	2/10/2004
Alkalinity, Total (As CaCO ₃)	470	5.00		mg/L	1	2/10/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.020		mg/L	1	2/9/2004

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analytic detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analytic detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Feb 16 2004

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7952 InstrumentID: ICP4500

MBLK	Sample ID: MBLKW3-020504	Test Code: SW6020		Units: mg/L		Analysis Date: 02/09/04 15:40			
Client ID:	Run ID: ICP4500_040209A	SeqNo:	427226	Prep Date:	2/5/2004	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
Arsenic	ND	0.0050							
Barium	ND	0.0050							
Beryllium	ND	0.0020							
Boron	ND	0.020							
Cadmium	ND	0.0010							
Calcium	ND	0.50							
Chromium	ND	0.0020							
Cobalt	ND	0.0020							
Copper	ND	0.0020							
Iron	ND	0.20							
Lead	ND	0.0050							
Magnesium	ND	0.20							
Manganese	ND	0.0050							
Nickel	ND	0.0050							
Potassium	ND	0.20							
Selenium	0.002704	0.0050							J
Silver	ND	0.0050							
Sodium	0.04194	0.20							J
Vanadium	ND	0.0050							
Zinc	ND	0.0050							

MBLK	Sample ID: MBLKW3-020504	Test Code: SW6020		Units: mg/L		Analysis Date: 02/10/04 12:14			
Client ID:	Run ID: ICP4500_040210A	SeqNo:	427544	Prep Date:	2/5/2004	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
Aluminum	0.009616	0.010							J

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7952 InstrumentID: ICP4500

LCS	Sample ID: MLCSW3-020504	Test Code: SW6020		Units: mg/L		Analysis Date: 02/09/04 15:55		
Client ID:		Run ID:	ICP4500_040209A	SeqNo:	427228	Prep Date:	2/5/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
Arsenic	0.04415	0.0050	0.05	0	88.3	80-120	0	
Barium	0.04374	0.0050	0.05	0	87.5	80-120	0	
Beryllium	0.04359	0.0020	0.05	0	87.2	80-120	0	
Boron	0.4714	0.020	0.5	0	94.3	80-120	0	
Cadmium	0.04633	0.0010	0.05	0	92.7	80-120	0	
Calcium	4.792	0.50	5	0	95.8	80-120	0	
Chromium	0.04542	0.0020	0.05	0	90.8	80-120	0	
Cobalt	0.0456	0.0020	0.05	0	91.2	80-120	0	
Copper	0.04443	0.0020	0.05	0	88.9	80-120	0	
Iron	4.653	0.20	5	0	93.1	80-120	0	
Lead	0.04284	0.0050	0.05	0	85.7	80-120	0	
Magnesium	4.892	0.20	5	0	97.8	80-120	0	
Manganese	0.04436	0.0050	0.05	0	88.7	80-120	0	
Nickel	0.04585	0.0050	0.05	0	91.7	80-120	0	
Potassium	4.86	0.20	5	0	97.2	80-120	0	
Selenium	0.0424	0.0050	0.05	0	84.8	80-120	0	
Silver	0.0447	0.0050	0.05	0	89.4	80-120	0	
Sodium	4.881	0.20	5	0	97.6	80-120	0	
Vanadium	0.04525	0.0050	0.05	0	90.5	80-120	0	
Zinc	0.04404	0.0050	0.05	0	88.1	80-120	0	

LCS	Sample ID: MLCSW3-020504	Test Code: SW6020		Units: mg/L		Analysis Date: 02/10/04 12:18		
Client ID:		Run ID:	ICP4500_040210A	SeqNo:	427545	Prep Date:	2/5/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
Aluminum	0.04734	0.010	0.05	0	94.7	80-120	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7952 InstrumentID: ICP4500

MS	Sample ID: 0402027-01CMS	Test Code: SW6020		Units: mg/L		Analysis Date: 02/09/04 16:59			
Client ID:		Run ID:	ICP4500_040209A	SeqNo:	427240	Prep Date:	2/5/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Aluminum	2.41	0.010	0.05	2.088	644	75-125	0		SEO
Arsenic	0.0764	0.0050	0.05	0.03482	83.2	75-125	0		
Beryllium	0.04248	0.0020	0.05	0	85	75-125	0		
Boron	0.2589	0.020	0.5	0.2521	1.36	75-125	0		S
Calcium	250.2	0.50	5	252.5	-46	75-125	0		SEO
Chromium	0.05014	0.0020	0.05	0.005542	89.2	75-125	0		
Cobalt	0.04967	0.0020	0.05	0.006164	87	75-125	0		
Copper	0.0435	0.0020	0.05	0.003005	81	75-125	0		
Iron	45.57	0.20	5	41.46	82.2	75-125	0		O
Magnesium	24.84	0.20	5	20.87	79.4	75-125	0		O
Manganese	9.723	0.0050	0.05	9.975	-504	75-125	0		SEO
Nickel	0.05343	0.0050	0.05	0.01194	83	75-125	0		
Potassium	15.6	0.20	5	10.97	92.6	75-125	0		
Selenium	0.04121	0.0050	0.05	0.004112	74.2	75-125	0		S
Sodium	ND	0.20	5	0	0	75-125	0		S
Vanadium	0.05793	0.0050	0.05	0.01159	92.7	75-125	0		
Zinc	0.1598	0.0050	0.05	0.119	81.6	75-125	0		

MS	Sample ID: 0402027-01CMS	Test Code: SW6020		Units: mg/L		Analysis Date: 02/10/04 13:20			
Client ID:		Run ID:	ICP4500_040210A	SeqNo:	427559	Prep Date:	2/5/2004	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Barium	0.666	0.0050	0.05	0.6396	52.8	75-125	0		SEO
Cadmium	0.03904	0.0010	0.05	0.0002425	77.6	75-125	0		
Lead	0.06671	0.0050	0.05	0.02027	92.9	75-125	0		
Silver	0.03925	0.0050	0.05	0.00006945	78.4	75-125	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7952 InstrumentID: ICP4500

MSD	Sample ID: 0402027-01CMSD	Test Code: SW6020			Units: mg/L		Analysis Date: 02/09/04 17:03			
Client ID:		Run ID:	ICP4500_040209A	SeqNo:	427241	Prep Date:	2/5/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3.059	0.010	0.05	2.088	1940	75-125	2.41	23.7	25	SEO
Arsenic	0.08532	0.0050	0.05	0.03482	101	75-125	0.0764	11	25	
Beryllium	0.04378	0.0020	0.05	0	87.6	75-125	0.04248	3.01	25	
Boron	0.2741	0.020	0.5	0.2521	4.4	75-125	0.2589	5.7	25	S
Calcium	265.5	0.50	5	252.5	260	75-125	250.2	5.93	25	SEO
Chromium	0.05296	0.0020	0.05	0.005542	94.8	75-125	0.05014	5.47	25	
Cobalt	0.05193	0.0020	0.05	0.006164	91.5	75-125	0.04967	4.45	25	
Copper	0.04572	0.0020	0.05	0.003005	85.4	75-125	0.0435	4.98	25	
Iron	48.83	0.20	5	41.46	147	75-125	45.57	6.91	25	SO
Magnesium	26.6	0.20	5	20.87	115	75-125	24.84	6.84	25	O
Manganese	10.34	0.0050	0.05	9.975	730	75-125	9.723	6.15	25	SEO
Nickel	0.05653	0.0050	0.05	0.01194	89.2	75-125	0.05343	5.64	25	
Potassium	16.46	0.20	5	10.97	110	75-125	15.6	5.36	25	
Selenium	0.04511	0.0050	0.05	0.004112	82	75-125	0.04121	9.04	25	
Sodium	ND	0.20	5	0	0	75-125	0	0	25	S
Vanadium	0.06102	0.0050	0.05	0.01159	98.9	75-125	0.05793	5.2	25	
Zinc	0.1686	0.0050	0.05	0.119	99.2	75-125	0.1598	5.36	25	

MSD	Sample ID: 0402027-01CMSD	Test Code: SW6020			Units: mg/L		Analysis Date: 02/10/04 13:25			
Client ID:		Run ID:	ICP4500_040210A	SeqNo:	427560	Prep Date:	2/5/2004	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.6852	0.0050	0.05	0.6396	91.2	75-125	0.666	2.84	25	EO
Cadmium	0.03989	0.0010	0.05	0.0002425	79.3	75-125	0.03904	2.15	25	
Lead	0.07063	0.0050	0.05	0.02027	101	75-125	0.06671	5.71	25	
Silver	0.03936	0.0050	0.05	0.00006945	78.6	75-125	0.03925	0.28	25	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7952 InstrumentID: ICP4500

DUP	Sample ID: 0402027-01CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 02/09/04 16:54		
Client ID:		Run ID:	ICP4500_040209A	SeqNo:	427239	Prep Date:	2/5/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Arsenic	0.03674	0.0050	0	0	0	0-0	0.03482	5.37 25
Beryllium	ND	0.0020	0	0	0	0-0	0.000242	0 25
Boron	0.2757	0.020	0	0	0	0-0	0.2521	8.94 25
Chromium	0.007658	0.0020	0	0	0	0-0	0.005542	32.1 25 R
Cobalt	0.006586	0.0020	0	0	0	0-0	0.006164	6.62 25
Copper	0.005022	0.0020	0	0	0	0-0	0.003005	50.3 25 R
Iron	42.28	0.20	0	0	0	0-0	41.46	1.96 25
Magnesium	21.64	0.20	0	0	0	0-0	20.87	3.62 25
Nickel	0.01304	0.0050	0	0	0	0-0	0.01194	8.81 25
Potassium	11.39	0.20	0	0	0	0-0	10.97	3.76 25
Selenium	0.002953	0.0050	0	0	0	0-0	0.004112	0 25 J
Vanadium	0.01251	0.0050	0	0	0	0-0	0.01159	7.63 25
Zinc	0.1266	0.0050	0	0	0	0-0	0.119	6.19 25

DUP	Sample ID: 0402027-01CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 02/10/04 12:49		
Client ID:		Run ID:	ICP4500_040210A	SeqNo:	427552	Prep Date:	2/5/2004	DF: 20
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	2.194	0.20	0	0	0	0-0	1.855	16.7 25
Calcium	241.5	10	0	0	0	0-0	241.8	0.124 25
Manganese	8.436	0.10	0	0	0	0-0	8.328	1.29 25
Sodium	118.8	4.0	0	0	0	0-0	116.9	1.61 25

DUP	Sample ID: 0402027-01CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 02/10/04 12:57		
Client ID:		Run ID:	ICP4500_040210A	SeqNo:	427554	Prep Date:	2/5/2004	DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Barium	0.6451	0.050	0	0	0	0-0	0.6099	5.61 25

DUP	Sample ID: 0402027-01CDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 02/10/04 13:07		
Client ID:		Run ID:	ICP4500_040210A	SeqNo:	427556	Prep Date:	2/5/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Cadmium	0.0002718	0.0010	0	0	0	0-0	0.0002425	0 25 J
Lead	0.02673	0.0050	0	0	0	0-0	0.02027	27.5 25 R
Silver	ND	0.0050	0	0	0	0-0	0.00006945	0 25

The following samples were analyzed in this batch:

0402010-01C	0402010-02C	0402010-03C
0402010-04C	0402010-05C	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 8003		InstrumentID: Mercury							
MBLK	Sample ID: GBLKW3-021004			Test Code: SW7470		Units: mg/L		Analysis Date: 02/11/04 14:45	
Client ID:		Run ID:	MERCURY_040211E	SeqNo:	428300	Prep Date:	2/10/2004	DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		ND	0.00020						
LCS	Sample ID: GLCSW3-021004			Test Code: SW7470		Units: mg/L		Analysis Date: 02/11/04 14:50	
Client ID:		Run ID:	MERCURY_040211E	SeqNo:	428301	Prep Date:	2/10/2004	DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00548	0.00020	0.005	0	110	83-115	0	
LCSD	Sample ID: GLCSDW3-021004			Test Code: SW7470		Units: mg/L		Analysis Date: 02/11/04 14:52	
Client ID:		Run ID:	MERCURY_040211E	SeqNo:	428302	Prep Date:	2/10/2004	DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00548	0.00020	0.005	0	110	83-115	0.00548	0 20
MS	Sample ID: 0402010-01CMS			Test Code: SW7470		Units: mg/L		Analysis Date: 02/11/04 14:56	
Client ID: MW-59		Run ID:	MERCURY_040211E	SeqNo:	428305	Prep Date:	2/10/2004	DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00457	0.00020	0.005	-0.000054	92.5	70-124	0	
MSD	Sample ID: 0402010-01CMUSD			Test Code: SW7470		Units: mg/L		Analysis Date: 02/11/04 14:58	
Client ID: MW-59		Run ID:	MERCURY_040211E	SeqNo:	428306	Prep Date:	2/10/2004	DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		0.00458	0.00020	0.005	-0.000054	92.7	70-124	0.00457	0.219 20
DUP	Sample ID: 0402010-01CDUP			Test Code: SW7470		Units: mg/L		Analysis Date: 02/11/04 14:55	
Client ID: MW-59		Run ID:	MERCURY_040211E	SeqNo:	428304	Prep Date:	2/10/2004	DF:	1
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Mercury		ND	0.00020	0	0	0	0-0	-0.000054	0 20

The following samples were analyzed in this batch:

0402010-01C	0402010-02C	0402010-03C
0402010-04C	0402010-05C	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7957 InstrumentID: SV-3

Mblk	Sample ID: SBLKW1-040205	Test Code: SW8270		Units: µg/L		Analysis Date: 02/06/04 17:40			
Client ID:		Run ID:	SV-3_040206A	SeqNo:	426364	Prep Date:	2/5/2004	DF:	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	10							
2,4,5-Trichlorophenol	ND	10							
2,4,6-Trichlorophenol	ND	10							
2-Methylnaphthalene	ND	10							
2-Methylphenol	ND	10							
2-Nitroaniline	ND	10							
2-Nitrophenol	ND	10							
3-Nitroaniline	ND	10							
4-Methylphenol	ND	10							
4-Nitroaniline	ND	10							
4-Nitrophenol	ND	10							
Acenaphthene	ND	10							
Acenaphthylene	ND	10							
Aniline	ND	10							
Anthracene	ND	10							
Benz(a)anthracene	ND	10							
Benzidine	ND	10							
Hexachloroethane	ND	10							
Indeno(1,2,3-cd)pyrene	ND	10							
Isophorone	ND	10							
N-Nitrosodi-n-propylamine	ND	10							
N-Nitrosodimethylamine	ND	10							
N-Nitrosodiphenylamine	ND	10							
Naphthalene	ND	10							
Nitrobenzene	ND	10							
Pentachlorophenol	ND	10							
Phenanthrene	ND	10							
Phenol	ND	10							
Pyrene	ND	10							
1,4-Dichlorobenzene-d4	40	0							
Acenaphthene-d10	40	0							
Chrysene-d12	40	0							
Naphthalene-d8	40	0							
Perylene-d12	40	0							
Phenanthrene-d10	40	0							
Surr: 2,4,6-Tribromophenol	88.75	0	100	0	88.8	39-153	0		
Surr: 2-Fluorobiphenyl	80.84	0	100	0	80.8	40-147	0		
Surr: 2-Fluorophenol	55.64	0	100	0	55.6	21-100	0		
Surr: 4-Terphenyl-d14	81.2	0	100	0	81.2	39-141	0		
Surr: Nitrobenzene-d5	82.1	0	100	0	82.1	37-140	0		
Surr: Phenol-d6	36.23	0	100	0	36.2	11-100	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7957 InstrumentID: SV-3

LCS	Sample ID: SLCSW1-040205	Test Code: SW8270		Units: µg/L		Analysis Date: 02/06/04 18:06		
Client ID:		Run ID: SV-3_040206A	SeqNo: 426365	Prep Date: 2/5/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
1,2,4-Trichlorobenzene	49.02	10	50	0	98	50-115	0	
2,4,5-Trichlorophenol	101.5	10	100	0	102	72-118	0	
2,4,6-Trichlorophenol	97.86	10	100	0	97.9	72-117	0	
2-Methylnaphthalene	47.89	10	50	0	95.8	47-122	0	
2-Methylphenol	88.69	10	100	0	88.7	51-115	0	
2-Nitroaniline	50.78	10	50	0	102	73-119	0	
2-Nitrophenol	100.7	10	100	0	101	60-119	0	
3-Nitroaniline	43.39	10	50	0	86.8	61-118	0	
4-Methylphenol	124	10	150	0	82.7	44-115	0	
4-Nitroaniline	47.16	10	50	0	94.3	61-123	0	
4-Nitrophenol	50.13	10	100	0	50.1	17-100	0	
Acenaphthene	48.92	10	50	0	97.8	68-115	0	
Acenaphthylene	47.07	10	50	0	94.1	67-116	0	
Aniline	38.33	10	50	0	76.7	40-130	0	
Anthracene	51.97	10	50	0	104	72-124	0	
Benz(a)anthracene	50.98	10	50	0	102	55-131	0	
Benzidine	26.45	10	50	0	52.9	10-115	0	
Hexachloroethane	48.12	10	50	0	96.2	46-115	0	
Indeno(1,2,3-cd)pyrene	47.72	10	50	0	95.4	42-123	0	
Isophorone	49.97	10	50	0	99.9	63-117	0	
N-Nitrosodi-n-propylamine	48.85	10	50	0	97.7	67-115	0	
N-Nitrosodimethylamine	32.37	10	50	0	64.7	28-115	0	
N-Nitrosodiphenylamine	50.9	10	50	0	102	72-144	0	
Naphthalene	47.71	10	50	0	95.4	52-115	0	
Nitrobenzene	49.07	10	50	0	98.1	65-115	0	
Pentachlorophenol	92.52	10	100	0	92.5	65-123	0	
Phenanthrene	49.23	10	50	0	98.5	69-119	0	
Phenol	45.6	10	100	0	45.6	16-115	0	
Pyrene	46.92	10	50	0	93.8	51-130	0	
Surr: 2,4,6-Tribromophenol	101.3	0	100	0	101	39-153	0	
Surr: 2-Fluorobiphenyl	88	0	100	0	88	40-147	0	
Surr: 2-Fluorophenol	64.68	0	100	0	64.7	21-100	0	
Surr: 4-Terphenyl-d14	90.59	0	100	0	90.6	39-141	0	
Surr: Nitrobenzene-d5	91.45	0	100	0	91.4	37-140	0	
Surr: Phenol-d6	42.41	0	100	0	42.4	11-100	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7957 InstrumentID: SV-3

LCSD	Sample ID: SLCSDW1-040205	Test Code: SW8270		Units: µg/L		Analysis Date: 02/06/04 18:32		
Client ID:		Run ID:	SV-3_040206A	SeqNo:	426366	Prep Date:	2/5/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	48.53	10	50	0	97.1	50-115	49.02	0.999 30
2,4,5-Trichlorophenol	101.5	10	100	0	102	72-118	101.5	0.0156 30
2,4,6-Trichlorophenol	97.09	10	100	0	97.1	72-117	97.86	0.785 30
2-Methylnaphthalene	45.84	10	50	0	91.7	47-122	47.89	4.39 30
2-Methylphenol	86.61	10	100	0	86.6	51-115	88.69	2.37 30
2-Nitroaniline	50.03	10	50	0	100	73-119	50.78	1.5 30
2-Nitrophenol	101.3	10	100	0	101	60-119	100.7	0.626 30
3-Nitroaniline	39.53	10	50	0	79.1	61-118	43.39	9.31 30
4-Methylphenol	121.1	10	150	0	80.8	44-115	124	2.32 30
4-Nitroaniline	45.41	10	50	0	90.8	61-123	47.16	3.79 30
4-Nitrophenol	52.62	10	100	0	52.6	17-100	50.13	4.85 30
Acenaphthene	48.82	10	50	0	97.6	68-115	48.92	0.196 30
Acenaphthylene	46.5	10	50	0	93	67-116	47.07	1.21 30
Aniline	36.62	10	50	0	73.2	40-130	38.33	4.56 30
Anthracene	51.89	10	50	0	104	72-124	51.97	0.16 30
Benz(a)anthracene	48.8	10	50	0	97.6	55-131	50.98	4.37 30
Benzidine	25.31	10	50	0	50.6	10-115	26.45	4.42 30
Hexachloroethane	47.34	10	50	0	94.7	46-115	48.12	1.64 30
Indeno(1,2,3-cd)pyrene	47.74	10	50	0	95.5	42-123	47.72	0.045 30
Isophorone	48.2	10	50	0	96.4	63-117	49.97	3.6 30
N-Nitrosodi-n-propylamine	47.89	10	50	0	95.8	67-115	48.85	1.97 30
N-Nitrosodimethylamine	33.36	10	50	0	66.7	28-115	32.37	3.02 30
N-Nitrosodiphenylamine	51.1	10	50	0	102	72-144	50.9	0.398 30
Naphthalene	47.22	10	50	0	94.4	52-115	47.71	1.05 30
Nitrobenzene	48.61	10	50	0	97.2	65-115	49.07	0.932 30
Pentachlorophenol	94.9	10	100	0	94.9	65-123	92.52	2.54 30
Phenanthrene	49.18	10	50	0	98.4	69-119	49.23	0.115 30
Phenol	46.38	10	100	0	46.4	16-115	45.6	1.71 30
Pyrene	45.19	10	50	0	90.4	51-130	46.92	3.77 30
Surr: 2,4,6-Tribromophenol	98.67	0	100	0	98.7	39-153	101.3	2.67 30
Surr: 2-Fluorobiphenyl	88.21	0	100	0	88.2	40-147	88	0.24 30
Surr: 2-Fluorophenol	65.53	0	100	0	65.5	21-100	64.68	1.29 30
Surr: 4-Terphenyl-d14	87.58	0	100	0	87.6	39-141	90.59	3.38 30
Surr: Nitrobenzene-d5	90.22	0	100	0	90.2	37-140	91.45	1.35 30
Surr: Phenol-d6	43.33	0	100	0	43.3	11-100	42.41	2.14 30

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

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J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **7957** InstrumentID: **SV-3**

MS	Sample ID: 0402021-08HMS	Test Code: SW8270		Units: µg/L		Analysis Date: 02/06/04 21:03			
Client ID:	Run ID: SV-3_040206A	SeqNo:	426368	Prep Date:	2/5/2004	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,2,4-Trichlorobenzene	47.64	10	50	0	95.3	45-115	0	0	
2,4,5-Trichlorophenol	100.5	10	100	0	101	47-129	0	0	
2,4,6-Trichlorophenol	96.71	10	100	0	96.7	45-127	0	0	
2-Methylnaphthalene	46.76	10	50	0	93.5	30-144	0	0	
2-Methylphenol	76.23	10	100	0	76.2	42-115	0	0	
2-Nitroaniline	49.79	10	50	0	99.6	48-129	0	0	
2-Nitrophenol	97.3	10	100	0	97.3	32-144	0	0	
3-Nitroaniline	31.48	10	50	0	63	23-122	0	0	
4-Methylphenol	103.4	10	150	0	68.9	35-115	0	0	
4-Nitroaniline	41.93	10	50	0	83.9	12-138	0	0	
4-Nitrophenol	40.11	10	100	0	40.1	10-80	0	0	
Acenaphthene	48.88	10	50	0	97.8	55-117	0	0	
Acenaphthylene	46.61	10	50	0	93.2	39-128	0	0	
Aniline	14.51	10	50	0	29	40-130	0	0	S
Anthracene	52.06	10	50	0	104	58-129	0	0	
Benz(a)anthracene	49.11	10	50	0	98.2	42-135	0	0	
Benzidine	3.455	10	50	0	6.91	10-127	0	0	JS
Hexachloroethane	45.82	10	50	0	91.6	45-115	0	0	
Indeno(1,2,3-cd)pyrene	45.35	10	50	0	90.7	32-132	0	0	
Isophorone	48.96	10	50	0	97.9	51-122	0	0	
N-Nitrosodi-n-propylamine	48.45	10	50	0	96.9	55-115	0	0	
N-Nitrosodimethylamine	21.41	10	50	0	42.8	30-115	0	0	
N-Nitrosodiphenylamine	50.61	10	50	0	101	47-146	0	0	
Naphthalene	46.3	10	50	0	92.6	46-116	0	0	
Nitrobenzene	47.68	10	50	0	95.4	48-126	0	0	
Pentachlorophenol	93.04	10	100	0	93	53-134	0	0	
Phenanthrene	48.86	10	50	0	97.7	57-123	0	0	
Phenol	31.64	10	100	0	31.6	10-115	0	0	
Pyrene	46.68	10	50	0	93.4	40-130	0	0	
Surr: 2,4,6-Tribromophenol	100.2	0	100	0	100	39-153	0	0	
Surr: 2-Fluorobiphenyl	86.43	0	100	0	86.4	40-147	0	0	
Surr: 2-Fluorophenol	47.88	0	100	0	47.9	21-100	0	0	
Surr: 4-Terphenyl-d14	86.76	0	100	0	86.8	39-141	0	0	
Surr: Nitrobenzene-d5	87.54	0	100	0	87.5	37-140	0	0	
Surr: Phenol-d6	30.5	0	100	0	30.5	11-100	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7957 InstrumentID: SV-3

MSD	Sample ID: 0402021-08HMSD	Test Code: SW8270		Units: µg/L		Analysis Date: 02/06/04 21:28				
Client ID:	Run ID: SV-3_040206A	SeqNo:	426369	Prep Date:	2/5/2004	DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	49.27	10	50	0	98.5	45-115	47.64	3.37	30	
2,4,5-Trichlorophenol	101.9	10	100	0	102	47-129	100.5	1.36	30	
2,4,6-Trichlorophenol	97.82	10	100	0	97.8	45-127	96.71	1.13	30	
2-Methylnaphthalene	48.2	10	50	0	96.4	30-144	46.76	3.04	30	
2-Methylphenol	76.08	10	100	0	76.1	42-115	76.23	0.203	30	
2-Nitroaniline	51.09	10	50	0	102	48-129	49.79	2.58	30	
2-Nitrophenol	101.6	10	100	0	102	32-144	97.3	4.32	30	
3-Nitroaniline	30.6	10	50	0	61.2	23-122	31.48	2.85	30	
4-Methylphenol	102.1	10	150	0	68.1	35-115	103.4	1.23	30	
4-Nitroaniline	40.58	10	50	0	81.2	12-138	41.93	3.27	30	
4-Nitrophenol	39.46	10	100	0	39.5	10-80	40.11	1.65	30	
Acenaphthene	49.31	10	50	0	98.6	55-117	48.88	0.877	30	
Acenaphthylene	46.99	10	50	0	94	39-128	46.61	0.827	30	
Aniline	12.17	10	50	0	24.3	40-130	14.51	17.6	30	S
Anthracene	53.67	10	50	0	107	58-129	52.06	3.05	30	
Benz(a)anthracene	49.23	10	50	0	98.5	42-135	49.11	0.259	30	
Benzidine	3.366	10	50	0	6.73	10-127	3.455	0	30	JS
Hexachloroethane	46.8	10	50	0	93.6	45-115	45.82	2.12	30	
Indeno(1,2,3-cd)pyrene	46.19	10	50	0	92.4	32-132	45.35	1.84	30	
Isophorone	49.8	10	50	0	99.6	51-122	48.96	1.72	30	
N-Nitrosodi-n-propylamine	48.46	10	50	0	96.9	55-115	48.45	0.0105	30	
N-Nitrosodimethylamine	22.2	10	50	0	44.4	30-115	21.41	3.66	30	
N-Nitrosodiphenylamine	52.19	10	50	0	104	47-146	50.61	3.07	30	
Naphthalene	48.13	10	50	0	96.3	46-116	46.3	3.89	30	
Nitrobenzene	49.54	10	50	0	99.1	48-126	47.68	3.83	30	
Pentachlorophenol	95.3	10	100	0	95.3	53-134	93.04	2.4	30	
Phenanthrene	49.63	10	50	0	99.3	57-123	48.86	1.56	30	
Phenol	32.06	10	100	0	32.1	10-115	31.64	1.31	30	
Pyrene	46.68	10	50	0	93.4	40-130	46.68	0.00338	30	
Surr: 2,4,6-Tribromophenol	101.7	0	100	0	102	39-153	100.2	1.5	30	
Surr: 2-Fluorobiphenyl	88.26	0	100	0	88.3	40-147	86.43	2.09	30	
Surr: 2-Fluorophenol	48.32	0	100	0	48.3	21-100	47.88	0.909	30	
Surr: 4-Terphenyl-d14	87.96	0	100	0	88	39-141	86.76	1.37	30	
Surr: Nitrobenzene-d5	91.01	0	100	0	91	37-140	87.54	3.88	30	
Surr: Phenol-d6	30.62	0	100	0	30.6	11-100	30.5	0.39	30	

The following samples were analyzed in this batch:

0402010-01E	0402010-02E	0402010-03E
0402010-04E	0402010-05E	

ND - Not Detected at the Reporting Limit

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CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18562 InstrumentID: VOA_I

MBLK	Sample ID: VBLKW-0203	Test Code: SW8260		Units: µg/L		Analysis Date: 02/03/04 12:30				
Client ID:		Run ID:	VOA_I_040203A	SeqNo:	424466	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	43.04	5.0	50	0	86.1	70-130		0		
Surr: 4-Bromofluorobenzene	50.1	5.0	50	0	100	70-130		0		
Surr: Dibromofluoromethane	43.62	5.0	50	0	87.2	70-130		0		
Surr: Toluene-d8	45.56	5.0	50	0	91.1	70-130		0		

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CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18562 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-0203	Test Code: SW8260		Units: µg/L		Analysis Date: 02/03/04 11:10				
Client ID:		Run ID:	VOA_I_040203A	SeqNo:	424465	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	56.51	5.0	50	0	113	75.2-120		0		
1,1,2,2-Tetrachloroethane	47.75	5.0	50	0	95.5	72.4-121		0		
1,1,2-Trichloroethane	49.89	5.0	50	0	99.8	80-120		0		
1,1-Dichloroethane	55.04	5.0	50	0	110	76.9-120		0		
1,1-Dichloroethene	61.71	5.0	50	0	123	72.6-123		0		S
1,2-Dichloroethane	56.45	5.0	50	0	113	80-120		0		
2-Butanone	98.42	10	100	0	98.4	70-130		0		
2-Chloroethyl vinyl ether	84.46	10	100	0	84.5	45.5-135		0		
2-Hexanone	72.11	10	100	0	72.1	55.6-126		0		
4-Methyl-2-pentanone	90.06	10	100	0	90.1	67.4-121		0		
Acetone	132.6	10	100	0	133	64.4-140		0		
Benzene	51.32	5.0	50	0	103	80-120		0		
Bromodichloromethane	54.45	5.0	50	0	109	80-120		0		
Bromoform	52.28	5.0	50	0	105	77.9-121		0		
Bromomethane	40.57	5.0	50	0	81.1	63.3-137		0		
Carbon disulfide	95.2	10	100	0	95.2	74.1-123		0		
Carbon tetrachloride	57.78	5.0	50	0	116	74.7-120		0		
Chlorobenzene	51.51	5.0	50	0	103	80-120		0		
Chloroethane	49.29	5.0	50	0	98.6	74.7-126		0		
Chloroform	54.89	5.0	50	0	110	80-120		0		
Chloromethane	50.93	5.0	50	0	102	64.5-132		0		
cis-1,3-Dichloropropene	52.06	5.0	50	0	104	80-120		0		
Dibromochloromethane	54.23	5.0	50	0	108	80-120		0		
Ethylbenzene	50.23	5.0	50	0	100	80-120		0		
m,p-Xylene	101.7	10	100	0	102	80-120		0		
Methylene chloride	55.88	10	50	0	112	76.2-120		0		
Styrene	50.67	5.0	50	0	101	80-120		0		
Tetrachloroethene	54.93	5.0	50	0	110	68.5-130		0		
Toluene	50.48	5.0	50	0	101	80-120		0		
trans-1,3-Dichloropropene	49.62	5.0	50	0	99.2	80-120		0		
Trichloroethene	52.93	5.0	50	0	106	78.9-120		0		
Vinyl acetate	97.56	10	100	0	97.6	62.4-133		0		
Vinyl chloride	45.37	2.0	50	0	90.7	72.7-128		0		
Xylenes, Total	154	15	150	0	103	80-120		0		
Surr: 1,2-Dichloroethane-d4	42.98	5.0	50	0	86	70-130		0		
Surr: 4-Bromofluorobenzene	50	5.0	50	0	100	70-130		0		
Surr: Dibromofluoromethane	43.75	5.0	50	0	87.5	70-130		0		
Surr: Toluene-d8	44.17	5.0	50	0	88.3	70-130		0		

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O - Reference analyte value is > 4 times amount spiked

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CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18562 InstrumentID: VOA_I

MS	Sample ID: 0402009-03AMS			Test Code: SW8260	Units: µg/L		Analysis Date: 02/03/04 13:51			
Client ID:		Run ID:	VOA_I_040203A	SeqNo:	424469	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.89	5.0	50	0	108	75.2-120	0	0		
1,1,2,2-Tetrachloroethane	50.86	5.0	50	0	102	72.4-121	0	0		
1,1,2-Trichloroethane	52.34	5.0	50	0	105	80-120	0	0		
1,1-Dichloroethane	54.81	5.0	50	0	110	76.9-120	0	0		
1,1-Dichloroethene	57.73	5.0	50	0	115	72.6-123	0	0		
1,2-Dichloroethane	58.77	5.0	50	0	118	80-120	0	0		
2-Butanone	94.64	10	100	0	94.6	70-130	0	0		
2-Chloroethyl vinyl ether	ND	10	100	0	0	45.5-135	0	0		S
2-Hexanone	67.83	10	100	0	67.8	55.6-126	0	0		
4-Methyl-2-pentanone	88.17	10	100	0	88.2	67.4-121	0	0		
Acetone	107.2	10	100	0	107	64.4-140	0	0		
Benzene	52.28	5.0	50	0	105	80-120	0	0		
Bromodichloromethane	57.22	5.0	50	0	114	80-120	0	0		
Bromoform	55.22	5.0	50	0	110	77.9-121	0	0		
Bromomethane	41.28	5.0	50	0	82.6	63.3-137	0	0		
Carbon disulfide	89.77	10	100	0	89.8	74.1-123	0	0		
Carbon tetrachloride	54.96	5.0	50	0	110	74.7-120	0	0		
Chlorobenzene	52.64	5.0	50	0	105	80-120	0	0		
Chloroethane	45.34	5.0	50	0	90.7	74.7-126	0	0		
Chloroform	55.42	5.0	50	0	111	80-120	0	0		
Chloromethane	57.01	5.0	50	0	114	64.5-132	0	0		
cis-1,3-Dichloropropene	54.17	5.0	50	0	108	80-120	0	0		
Dibromochloromethane	57.78	5.0	50	0	116	80-120	0	0		
Ethylbenzene	49.68	5.0	50	0	99.4	80-120	0	0		
m,p-Xylene	101.9	10	100	0	102	80-120	0	0		
Methylene chloride	57.33	10	50	0	115	76.2-120	0	0		
Styrene	51.07	5.0	50	0	102	80-120	0	0		
Tetrachloroethene	51.29	5.0	50	0	103	68.5-130	0	0		
Toluene	49.57	5.0	50	0	99.1	80-120	0	0		
trans-1,3-Dichloropropene	53.71	5.0	50	0	107	80-120	0	0		
Trichloroethene	53.48	5.0	50	0	107	78.9-120	0	0		
Vinyl acetate	105.4	10	100	0	105	62.4-133	0	0		
Vinyl chloride	40.63	2.0	50	0	81.3	72.7-128	0	0		
Xylenes, Total	154.7	15	150	0	103	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	43.43	5.0	50	0	86.9	70-130	0	0		
Surr: 4-Bromofluorobenzene	49.79	5.0	50	0	99.6	70-130	0	0		
Surr: Dibromofluoromethane	43.7	5.0	50	0	87.4	70-130	0	0		
Surr: Toluene-d8	43.54	5.0	50	0	87.1	70-130	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18562 InstrumentID: VOA_I

MSD	Sample ID: 0402009-03AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 02/03/04 14:18		
Client ID:	Run ID: VOA_I_040203A	SeqNo:	424470	Prep Date:		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	52.53	5.0	50	0	105	75.2-120	53.89	2.56 20
1,1,2,2-Tetrachloroethane	44.42	5.0	50	0	88.8	72.4-121	50.86	13.5 20
1,1,2-Trichloroethane	47.57	5.0	50	0	95.1	80-120	52.34	9.57 20
1,1-Dichloroethane	50.54	5.0	50	0	101	76.9-120	54.81	8.1 20
1,1-Dichloroethene	57.83	5.0	50	0	116	72.6-123	57.73	0.183 20
1,2-Dichloroethane	54.09	5.0	50	0	108	80-120	58.77	8.29 20
2-Butanone	83.52	10	100	0	83.5	70-130	94.64	12.5 20
2-Chloroethyl vinyl ether	7.394	10	100	0	7.39	45.5-135	0	0 20 JS
2-Hexanone	68.69	10	100	0	68.7	55.6-126	67.83	1.26 20
4-Methyl-2-pentanone	78.56	10	100	0	78.6	67.4-121	88.17	11.5 20
Acetone	94.9	10	100	0	94.9	64.4-140	107.2	12.2 20
Benzene	48.71	5.0	50	0	97.4	80-120	52.28	7.06 20
Bromodichloromethane	51.92	5.0	50	0	104	80-120	57.22	9.71 20
Bromoform	50.31	5.0	50	0	101	77.9-121	55.22	9.3 20
Bromomethane	42.08	5.0	50	0	84.2	63.3-137	41.28	1.92 20
Carbon disulfide	86.8	10	100	0	86.8	74.1-123	89.77	3.36 20
Carbon tetrachloride	54.9	5.0	50	0	110	74.7-120	54.96	0.115 20
Chlorobenzene	49.21	5.0	50	0	98.4	80-120	52.64	6.73 20
Chloroethane	43.8	5.0	50	0	87.6	74.7-126	45.34	3.47 20
Chloroform	51.39	5.0	50	0	103	80-120	55.42	7.55 20
Chloromethane	51.29	5.0	50	0	103	64.5-132	57.01	10.6 20
cis-1,3-Dichloropropene	50.86	5.0	50	0	102	80-120	54.17	6.32 20
Dibromochloromethane	51.98	5.0	50	0	104	80-120	57.78	10.6 20
Ethylbenzene	47.24	5.0	50	0	94.5	80-120	49.68	5.03 20
m,p-Xylene	96.29	10	100	0	96.3	80-120	101.9	5.69 20
Methylene chloride	51.58	10	50	0	103	76.2-120	57.33	10.6 20
Styrene	47.37	5.0	50	0	94.7	80-120	51.07	7.52 20
Tetrachloroethene	50.6	5.0	50	0	101	68.5-130	51.29	1.36 20
Toluene	47.22	5.0	50	0	94.4	80-120	49.57	4.86 20
trans-1,3-Dichloropropene	48.08	5.0	50	0	96.2	80-120	53.71	11.1 20
Trichloroethene	51.31	5.0	50	0	103	78.9-120	53.48	4.13 20
Vinyl acetate	94.54	10	100	0	94.5	62.4-133	105.4	10.8 20
Vinyl chloride	41.06	2.0	50	0	82.1	72.7-128	40.63	1.05 20
Xylenes, Total	145.6	15	150	0	97.1	80-120	154.7	6.01 20
Surr: 1,2-Dichloroethane-d4	42.74	5.0	50	0	85.5	70-130	43.43	1.6 20
Surr: 4-Bromofluorobenzene	50.07	5.0	50	0	100	70-130	49.79	0.575 20
Surr: Dibromofluoromethane	42.81	5.0	50	0	85.6	70-130	43.7	2.05 20
Surr: Toluene-d8	44.23	5.0	50	0	88.5	70-130	43.54	1.56 20

The following samples were analyzed in this batch:

0402010-01A	0402010-02A	0402010-03A
0402010-04A	0402010-05A	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18596 InstrumentID: VOA_I

MBLK	Sample ID: VBLKW-0204	Test Code: SW8260		Units: µg/L		Analysis Date: 02/04/04 23:18		
Client ID:		Run ID:	VOA_I_040204B	SeqNo:	425164	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	48.82	5.0	50	0	97.6	70-130	0	
Surr: 4-Bromofluorobenzene	45.64	5.0	50	0	91.3	70-130	0	
Surr: Dibromofluoromethane	48.67	5.0	50	0	97.3	70-130	0	
Surr: Toluene-d8	46.12	5.0	50	0	92.2	70-130	0	

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CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18596 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-0204	Test Code: SW8260		Units: µg/L		Analysis Date: 02/04/04 21:57				
Client ID:	Run ID: VOA_I_040204B	SeqNo:	425162	Prep Date:		DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	56.33	5.0	50	0	113	75.2-120		0		
1,1,2,2-Tetrachloroethane	47.23	5.0	50	0	94.5	72.4-121		0		
1,1,2-Trichloroethane	49.8	5.0	50	0	99.6	80-120		0		
1,1-Dichloroethane	56.04	5.0	50	0	112	76.9-120		0		
1,1-Dichloroethene	61.64	5.0	50	0	123	72.6-123		0		S
1,2-Dichloroethane	56.01	5.0	50	0	112	80-120		0		
2-Butanone	97.15	10	100	0	97.2	70-130		0		
2-Chloroethyl vinyl ether	84.79	10	100	0	84.8	45.5-135		0		
2-Hexanone	75.45	10	100	0	75.4	55.6-126		0		
4-Methyl-2-pentanone	82.72	10	100	0	82.7	67.4-121		0		
Acetone	129.5	10	100	0	129	64.4-140		0		
Benzene	52.46	5.0	50	0	105	80-120		0		
Bromodichloromethane	54.82	5.0	50	0	110	80-120		0		
Bromoform	51.59	5.0	50	0	103	77.9-121		0		
Bromomethane	47.31	5.0	50	0	94.6	63.3-137		0		
Carbon disulfide	94.83	10	100	0	94.8	74.1-123		0		
Carbon tetrachloride	56.35	5.0	50	0	113	74.7-120		0		
Chlorobenzene	51.31	5.0	50	0	103	80-120		0		
Chloroethane	47.65	5.0	50	0	95.3	74.7-126		0		
Chloroform	55.66	5.0	50	0	111	80-120		0		
Chloromethane	49.44	5.0	50	0	98.9	64.5-132		0		
cis-1,3-Dichloropropene	51.7	5.0	50	0	103	80-120		0		
Dibromochloromethane	54.26	5.0	50	0	109	80-120		0		
Ethylbenzene	49.35	5.0	50	0	98.7	80-120		0		
m,p-Xylene	99.32	10	100	0	99.3	80-120		0		
Methylene chloride	57.62	10	50	0	115	76.2-120		0		
Styrene	50.53	5.0	50	0	101	80-120		0		
Tetrachloroethene	52.41	5.0	50	0	105	68.5-130		0		
Toluene	48.98	5.0	50	0	98	80-120		0		
trans-1,3-Dichloropropene	50.54	5.0	50	0	101	80-120		0		
Trichloroethene	54.26	5.0	50	0	109	78.9-120		0		
Vinyl acetate	88.08	10	100	0	88.1	62.4-133		0		
Vinyl chloride	44.37	2.0	50	0	88.7	72.7-128		0		
Xylenes, Total	151.2	15	150	0	101	80-120		0		
Surr: 1,2-Dichloroethane-d4	49.44	5.0	50	0	98.9	70-130		0		
Surr: 4-Bromofluorobenzene	47.31	5.0	50	0	94.6	70-130		0		
Surr: Dibromofluoromethane	50	5.0	50	0	100	70-130		0		
Surr: Toluene-d8	48.18	5.0	50	0	96.4	70-130		0		

ND - Not Detected at the Reporting Limit

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18596 InstrumentID: VOA_I

LCSD	Sample ID: VLCSWD-0204			Test Code: SW8260	Units: µg/L		Analysis Date: 02/04/04 22:24			
Client ID:		Run ID:	VOA_I_040204B	SeqNo:	425163	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	56.88	5.0	50	0	114	75.2-120	56.33	0.971	20	
1,1,2,2-Tetrachloroethane	45.97	5.0	50	0	91.9	72.4-121	47.23	2.69	20	
1,1,2-Trichloroethane	49.31	5.0	50	0	98.6	80-120	49.8	0.984	20	
1,1-Dichloroethane	56.52	5.0	50	0	113	76.9-120	56.04	0.841	20	
1,1-Dichloroethene	61.94	5.0	50	0	124	72.6-123	61.64	0.491	20	S
1,2-Dichloroethane	54.87	5.0	50	0	110	80-120	56.01	2.06	20	
2-Butanone	106.5	10	100	0	106	70-130	97.15	9.17	20	
2-Chloroethyl vinyl ether	82.27	10	100	0	82.3	45.5-135	84.79	3.02	20	
2-Hexanone	74.57	10	100	0	74.6	55.6-126	75.45	1.17	20	
4-Methyl-2-pentanone	82	10	100	0	82	67.4-121	82.72	0.88	20	
Acetone	129.1	10	100	0	129	64.4-140	129.5	0.289	20	
Benzene	53.04	5.0	50	0	106	80-120	52.46	1.11	20	
Bromodichloromethane	55.1	5.0	50	0	110	80-120	54.82	0.505	20	
Bromoform	50.37	5.0	50	0	101	77.9-121	51.59	2.4	20	
Bromomethane	49.54	5.0	50	0	99.1	63.3-137	47.31	4.61	20	
Carbon disulfide	95.27	10	100	0	95.3	74.1-123	94.83	0.469	20	
Carbon tetrachloride	57.66	5.0	50	0	115	74.7-120	56.35	2.29	20	
Chlorobenzene	51.65	5.0	50	0	103	80-120	51.31	0.671	20	
Chloroethane	48.71	5.0	50	0	97.4	74.7-126	47.65	2.19	20	
Chloroform	55.87	5.0	50	0	112	80-120	55.66	0.366	20	
Chloromethane	49.43	5.0	50	0	98.9	64.5-132	49.44	0.0305	20	
cis-1,3-Dichloropropene	52.28	5.0	50	0	105	80-120	51.7	1.12	20	
Dibromochloromethane	53.01	5.0	50	0	106	80-120	54.26	2.33	20	
Ethylbenzene	50.23	5.0	50	0	100	80-120	49.35	1.77	20	
m,p-Xylene	99.7	10	100	0	99.7	80-120	99.32	0.379	20	
Methylene chloride	57.21	10	50	0	114	76.2-120	57.62	0.722	20	
Styrene	49.32	5.0	50	0	98.6	80-120	50.53	2.41	20	
Tetrachloroethene	52.37	5.0	50	0	105	68.5-130	52.41	0.0836	20	
Toluene	50.06	5.0	50	0	100	80-120	48.98	2.16	20	
trans-1,3-Dichloropropene	49.92	5.0	50	0	99.8	80-120	50.54	1.24	20	
Trichloroethene	54.83	5.0	50	0	110	78.9-120	54.26	1.04	20	
Vinyl acetate	88.12	10	100	0	88.1	62.4-133	88.08	0.0381	20	
Vinyl chloride	45.03	2.0	50	0	90.1	72.7-128	44.37	1.48	20	
Xylenes, Total	150.7	15	150	0	100	80-120	151.2	0.382	20	
Surr: 1,2-Dichloroethane-d4	49.62	5.0	50	0	99.2	70-130	49.44	0.371	20	
Surr: 4-Bromofluorobenzene	45.36	5.0	50	0	90.7	70-130	47.31	4.22	20	
Surr: Dibromofluoromethane	49.21	5.0	50	0	98.4	70-130	50	1.6	20	
Surr: Toluene-d8	46.73	5.0	50	0	93.5	70-130	48.18	3.05	20	

ND - Not Detected at the Reporting Limit

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CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18596 InstrumentID: VOA_I

MS	Sample ID: 0402005-09AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 02/05/04 0:39				
Client ID:	Run ID: VOA_I_040204B	SeqNo:	425165	Prep Date:		DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	63.79	5.0	50	0	128	75.2-120	0	0		S
1,1,2,2-Tetrachloroethane	56.13	5.0	50	0	112	72.4-121	0	0		
1,1,2-Trichloroethane	59.76	5.0	50	0	120	80-120	0	0		
1,1-Dichloroethane	64.6	5.0	50	0	129	76.9-120	0	0		S
1,1-Dichloroethene	67.69	5.0	50	0	135	72.6-123	0	0		S
1,2-Dichloroethane	65.7	5.0	50	0	131	80-120	0	0		S
2-Butanone	105.5	10	100	0	105	70-130	0	0		
2-Chloroethyl vinyl ether	ND	10	100	0	0	45.5-135	0	0		S
2-Hexanone	92.32	10	100	0	92.3	55.6-126	0	0		
4-Methyl-2-pentanone	109.7	10	100	0	110	67.4-121	0	0		
Acetone	123.8	10	100	0	124	64.4-140	0	0		
Benzene	60.48	5.0	50	0	121	80-120	0	0		S
Bromodichloromethane	64.7	5.0	50	0	129	80-120	0	0		S
Bromoform	61.64	5.0	50	0	123	77.9-121	0	0		S
Bromomethane	56.52	5.0	50	0	113	63.3-137	0	0		
Carbon disulfide	103.3	10	100	0	103	74.1-123	0	0		
Carbon tetrachloride	63.52	5.0	50	0	127	74.7-120	0	0		S
Chlorobenzene	60.17	5.0	50	0	120	80-120	0	0		S
Chloroethane	53.27	5.0	50	0	107	74.7-126	0	0		
Chloroform	65.68	5.0	50	0	131	80-120	0	0		S
Chloromethane	54.43	5.0	50	0	109	64.5-132	0	0		
cis-1,3-Dichloropropene	61.45	5.0	50	0	123	80-120	0	0		S
Dibromochloromethane	63.98	5.0	50	0	128	80-120	0	0		S
Ethylbenzene	56.89	5.0	50	0	114	80-120	0	0		
m,p-Xylene	114.6	10	100	0	115	80-120	0	0		
Methylene chloride	67.11	10	50	0	134	76.2-120	0	0		S
Styrene	57.42	5.0	50	0	115	80-120	0	0		
Tetrachloroethene	59.03	5.0	50	0	118	68.5-130	0	0		
Toluene	57.17	5.0	50	0	114	80-120	0	0		
trans-1,3-Dichloropropene	60.76	5.0	50	0	122	80-120	0	0		S
Trichloroethene	60.4	5.0	50	0	121	78.9-120	0	0		S
Vinyl acetate	116	10	100	0	116	62.4-133	0	0		
Vinyl chloride	48.03	2.0	50	0	96.1	72.7-128	0	0		
Xylenes, Total	173.7	15	150	0	116	80-120	0	0		
Surr: 1,2-Dichloroethane-d4	49.74	5.0	50	0	99.5	70-130	0	0		
Surr: 4-Bromofluorobenzene	46.03	5.0	50	0	92.1	70-130	0	0		
Surr: Dibromofluoromethane	49.97	5.0	50	0	99.9	70-130	0	0		
Surr: Toluene-d8	47.26	5.0	50	0	94.5	70-130	0	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: **R18596** InstrumentID: **VOA_I**

MSD	Sample ID: 0402005-09AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 02/05/04 1:06				
Client ID:	Run ID: VOA_I_040204B	SeqNo:	425166	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	61.16	5.0	50	0	122	75.2-120	63.79	4.22	20	S
1,1,2,2-Tetrachloroethane	57.98	5.0	50	0	116	72.4-121	56.13	3.25	20	
1,1,2-Trichloroethane	59.2	5.0	50	0	118	80-120	59.76	0.944	20	
1,1-Dichloroethane	63.34	5.0	50	0	127	76.9-120	64.6	1.98	20	S
1,1-Dichloroethene	64.76	5.0	50	0	130	72.6-123	67.69	4.41	20	S
1,2-Dichloroethane	67.15	5.0	50	0	134	80-120	65.7	2.19	20	S
2-Butanone	104.6	10	100	0	105	70-130	105.5	0.87	20	
2-Chloroethyl vinyl ether	ND	10	100	0	0	45.5-135	0	0	20	S
2-Hexanone	92.11	10	100	0	92.1	55.6-126	92.32	0.229	20	
4-Methyl-2-pentanone	111.6	10	100	0	112	67.4-121	109.7	1.8	20	
Acetone	123.7	10	100	0	124	64.4-140	123.8	0.0567	20	
Benzene	60.34	5.0	50	0	121	80-120	60.48	0.235	20	S
Bromodichloromethane	65.96	5.0	50	0	132	80-120	64.7	1.94	20	S
Bromoform	61.95	5.0	50	0	124	77.9-121	61.64	0.505	20	S
Bromomethane	60.6	5.0	50	0	121	63.3-137	56.52	6.98	20	
Carbon disulfide	100.6	10	100	0	101	74.1-123	103.3	2.62	20	
Carbon tetrachloride	61.62	5.0	50	0	123	74.7-120	63.52	3.03	20	S
Chlorobenzene	59.27	5.0	50	0	119	80-120	60.17	1.5	20	
Chloroethane	52.83	5.0	50	0	106	74.7-126	53.27	0.823	20	
Chloroform	64.31	5.0	50	0	129	80-120	65.68	2.11	20	S
Chloromethane	54.87	5.0	50	0	110	64.5-132	54.43	0.811	20	
cis-1,3-Dichloropropene	60.8	5.0	50	0	122	80-120	61.45	1.08	20	S
Dibromochloromethane	63.18	5.0	50	0	126	80-120	63.98	1.26	20	S
Ethylbenzene	54.7	5.0	50	0	109	80-120	56.89	3.93	20	
m,p-Xylene	112.9	10	100	0	113	80-120	114.6	1.5	20	
Methylene chloride	66.64	10	50	0	133	76.2-120	67.11	0.709	20	S
Styrene	52.49	5.0	50	0	105	80-120	57.42	8.98	20	
Tetrachloroethene	56.49	5.0	50	0	113	68.5-130	59.03	4.4	20	
Toluene	55.44	5.0	50	0	111	80-120	57.17	3.08	20	
trans-1,3-Dichloropropene	59.22	5.0	50	0	118	80-120	60.76	2.57	20	
Trichloroethene	60.2	5.0	50	0	120	78.9-120	60.4	0.335	20	S
Vinyl acetate	110.1	10	100	0	110	62.4-133	116	5.27	20	
Vinyl chloride	48.39	2.0	50	0	96.8	72.7-128	48.03	0.743	20	
Xylenes, Total	171.5	15	150	0	114	80-120	173.7	1.28	20	
Surr: 1,2-Dichloroethane-d4	49.81	5.0	50	0	99.6	70-130	49.74	0.154	20	
Surr: 4-Bromofluorobenzene	46.09	5.0	50	0	92.2	70-130	46.03	0.126	20	
Surr: Dibromofluoromethane	49.74	5.0	50	0	99.5	70-130	49.97	0.462	20	
Surr: Toluene-d8	45.99	5.0	50	0	92	70-130	47.26	2.72	20	

The following samples were analyzed in this batch:

0402010-01A 0402010-02A 0402010-04A

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18576 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-020304		Test Code: E300		Units: mg/L		Analysis Date: 02/03/04 13:02		
Client ID:		Run ID: IC201_040203A		SeqNo: 424742		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.94	0.10	5	0	98.8	80-120		0		

LCS		Sample ID: WLCSW1-020304		Test Code: E300		Units: mg/L		Analysis Date: 02/03/04 13:30		
Client ID:		Run ID: IC201_040203A		SeqNo: 424743		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.4	0.50	10	0	94	80-120		0		
Fluoride	1.92	0.10	2	0	96	80-120		0		
Sulfate	9.45	1.0	10	0	94.5	80-120		0		
Surr: Dichloroacetic acid (surr)	4.29	0.10	5	0	85.8	80-120		0		

LCSD		Sample ID: WLCSDW1-02030		Test Code: E300		Units: mg/L		Analysis Date: 02/03/04 13:59		
Client ID:		Run ID: IC201_040203A		SeqNo: 424744		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.42	0.50	10	0	94.2	80-120	9.4	0.213	20	
Fluoride	1.87	0.10	2	0	93.5	80-120	1.92	2.64	20	
Sulfate	9.39	1.0	10	0	93.9	80-120	9.45	0.637	20	
Surr: Dichloroacetic acid (surr)	4.45	0.10	5	0	89	80-120	4.29	3.66	20	

MS		Sample ID: 0402017-02BMS		Test Code: E300		Units: mg/L		Analysis Date: 02/04/04 14:41		
Client ID:		Run ID: IC201_040203A		SeqNo: 424767		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.99	0.50	10	0	89.9	75-125		0		
Fluoride	1.93	0.10	2	0	96.5	75-125		0		
Sulfate	9.46	1.0	10	0	94.6	75-125		0		
Nitrate/Nitrite (as N)	3.76	0.10	4	0	94	75-125		0		
Surr: Dichloroacetic acid (surr)	4.75	0.10	5	0	95	80-120		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18576 InstrumentID: IC201

MSD Sample ID: 0402017-02BMSD Test Code: E300 Units: mg/L Analysis Date: 02/04/04 15:10

Client ID: Run ID: IC201_040203A SeqNo: 424768 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	8.86	0.50	10	0	88.6	75-125	8.99	1.46	20	
Fluoride	1.93	0.10	2	0	96.5	75-125	1.93	0	20	
Sulfate	9.22	1.0	10	0	92.2	75-125	9.46	2.57	20	
Nitrate/Nitrite (as N)	3.84	0.10	4	0	96	75-125	3.76	2.11	20	
Surr: Dichloroacetic acid (surr)	4.69	0.10	5	0	93.8	80-120	4.75	1.27	20	

DUP Sample ID: 0402008-09CDUP Test Code: E300 Units: mg/L Analysis Date: 02/04/04 10:25

Client ID: Run ID: IC201_040203A SeqNo: 424761 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	1.17	0.10	0	0	0	0-0	1.22	4.18	20	
Sulfate	ND	1.0	0	0	0	0-0	0	0	20	
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	4.54	0.10	5	0	90.8	80-120	4.96	8.84	20	

DUP Sample ID: 0402017-02BDUP Test Code: E300 Units: mg/L Analysis Date: 02/04/04 14:13

Client ID: Run ID: IC201_040203A SeqNo: 424766 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50	0	0	0	0-0	0	0	20	
Fluoride	ND	0.10	0	0	0	0-0	0	0	20	
Sulfate	ND	1.0	0	0	0	0-0	0	0	20	
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	4.78	0.10	5	0	95.6	80-120	5	4.5	20	

The following samples were analyzed in this batch:

0402010-01B	0402010-02B	0402010-03B
0402010-04B	0402010-05B	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18670 InstrumentID: UV-2101PC

MBLK		Sample ID: WMBW1-020904		Test Code: E335.3		Units: mg/L		Analysis Date: 02/09/04 0:00			
Client ID:		Run ID: UV-2101PC_040209A		SeqNo:	426814	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020								
LCS		Sample ID: WLCSW1-020904		Test Code: E335.3		Units: mg/L		Analysis Date: 02/09/04 0:00			
Client ID:		Run ID: UV-2101PC_040209A		SeqNo:	426815	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.2063	0.020	0.2	0	103	80-120		0		
MS		Sample ID: 0402017-02CMS		Test Code: E335.3		Units: mg/L		Analysis Date: 02/09/04 0:00			
Client ID:		Run ID: UV-2101PC_040209A		SeqNo:	426946	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.2055	0.020	0.2	0.002	102	75-125		0		
MSD		Sample ID: 0402017-02CMSD		Test Code: E335.3		Units: mg/L		Analysis Date: 02/09/04 0:00			
Client ID:		Run ID: UV-2101PC_040209A		SeqNo:	426947	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		0.1983	0.020	0.2	0.002	98.1	75-125	0.2055	3.57	25	
DUP		Sample ID: 0402017-02CDUP		Test Code: E335.3		Units: mg/L		Analysis Date: 02/09/04 0:00			
Client ID:		Run ID: UV-2101PC_040209A		SeqNo:	426945	Prep Date:		DF: 1			
Analyte		Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide		ND	0.020	0	0	0	0-0	0.002	0	20	

The following samples were analyzed in this batch:

0402010-01D	0402010-02D	0402010-03D
0402010-04D	0402010-05D	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18676 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-020604		Test Code: E300		Units: mg/L		Analysis Date: 02/06/04 12:48		
Client ID:		Run ID: IC201_040206A		SeqNo: 426952		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.89	0.10	5	0	97.8	80-120		0		

LCS		Sample ID: WLCSW1-020604		Test Code: E300		Units: mg/L		Analysis Date: 02/06/04 13:17		
Client ID:		Run ID: IC201_040206A		SeqNo: 426953		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.34	0.50	10	0	93.4	80-120		0		
Fluoride	1.92	0.10	2	0	96	80-120		0		
Sulfate	9.34	1.0	10	0	93.4	80-120		0		
Surr: Dichloroacetic acid (surr)	4.52	0.10	5	0	90.4	80-120		0		

LCSD		Sample ID: WLCSDW1-02060		Test Code: E300		Units: mg/L		Analysis Date: 02/06/04 13:45		
Client ID:		Run ID: IC201_040206A		SeqNo: 426954		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.35	0.50	10	0	93.5	80-120	9.34	0.107	20	
Fluoride	1.9	0.10	2	0	95	80-120	1.92	1.05	20	
Sulfate	9.41	1.0	10	0	94.1	80-120	9.34	0.747	20	
Surr: Dichloroacetic acid (surr)	4.36	0.10	5	0	87.2	80-120	4.52	3.6	20	

MS		Sample ID: 0402010-01BMS		Test Code: E300		Units: mg/L		Analysis Date: 02/06/04 15:11		
Client ID:		Run ID: IC201_040206A		SeqNo: 426957		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1040	50	1000	235	80.5	75-125		0		
Fluoride	188	10	200	0	94	75-125		0		
Sulfate	2363	100	1000	1434	92.9	75-125		0		
Nitrate/Nitrite (as N)	391	10	400	0	97.8	75-125		0		
Surr: Dichloroacetic acid (surr)	481	10	500	0	96.2	80-120		0		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18676 InstrumentID: IC201

MSD Sample ID: 0402010-01BMSD Test Code: E300 Units: mg/L Analysis Date: 02/06/04 15:39

Client ID: MW-59 Run ID: IC201_040206A SeqNo: 426958 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1028	50	1000	235	79.3	75-125	1040	1.16	20	
Fluoride	186	10	200	0	93	75-125	188	1.07	20	
Sulfate	2338	100	1000	1434	90.4	75-125	2363	1.06	20	
Nitrate/Nitrite (as N)	373	10	400	0	93.2	75-125	391	4.71	20	
Surr: Dichloroacetic acid (surr)	477	10	500	0	95.4	80-120	481	0.835	20	

DUP Sample ID: 0402010-01BDUP Test Code: E300 Units: mg/L Analysis Date: 02/06/04 14:42

Client ID: MW-59 Run ID: IC201_040206A SeqNo: 426956 Prep Date: DF: 100

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	235	50	0	0	0	0-0	235	0	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1424	100	0	0	0	0-0	1434	0.7	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	486	10	500	0	97.2	80-120	513	5.41	20	

DUP Sample ID: 0402010-05BDUP Test Code: E300 Units: mg/L Analysis Date: 02/06/04 18:30

Client ID: TEL-1 Run ID: IC201_040206A SeqNo: 426964 Prep Date: DF: 50

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	187.5	25	0	0	0	0-0	187.5	0	20	
Fluoride	ND	5.0	0	0	0	0-0	0	0	20	
Sulfate	1318	50	0	0	0	0-0	1319	0.0379	20	
Nitrate/Nitrite (as N)	ND	5.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	248	5.0	250	0	99.2	80-120	245.5	1.01	20	

The following samples were analyzed in this batch:

0402010-01B	0402010-03B	0402010-04B
0402010-05B		

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0402010
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18698 InstrumentID: Wet Chemistry

MBLK Sample ID: WBLKW1-021004		Test Code: E310.1		Units: mg/L		Analysis Date: 02/10/04 0:00		
Client ID: Run ID: WET CHEMISTRY_0402 SeqNo: 427611				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0						
Alkalinity, Carbonate (As CaCO3)	ND	5.0						
Alkalinity, Hydroxide (As CaCO3)	ND	5.0						
Alkalinity, Total (As CaCO3)	ND	5.0						

LCS Sample ID: WLCSW1-021004		Test Code: E310.1		Units: mg/L		Analysis Date: 02/10/04 0:00		
Client ID: Run ID: WET CHEMISTRY_0402 SeqNo: 427612				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Total (As CaCO3)	950.2	5.0	1000	0	95	80-120	0	

DUP Sample ID: 0402010-01BDUP		Test Code: E310.1		Units: mg/L		Analysis Date: 02/10/04 0:00		
Client ID: MW-59 Run ID: WET CHEMISTRY_0402 SeqNo: 427618				Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Alkalinity, Bicarbonate (As CaCO3)	500.1	5.0	0	0	0	0-0	500.1	0 20
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0 20
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0 20
Alkalinity, Total (As CaCO3)	500.1	5.0	0	0	0	0-0	500.1	0 20

The following samples were analyzed in this batch:

0402010-01B	0402010-02B	0402010-03B
0402010-04B	0402010-05B	

ND - Not Detected at the Reporting Limit

J - Analytic detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

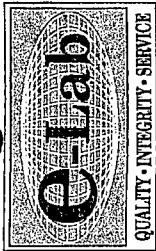
R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range



e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Page 1 of 1

Customer Information		Project Information			Parameter/Method Request for Analysis		
Purchase Order	Project Name	NOJ TEL	VOC (Select) <input checked="" type="checkbox"/> B260	A	VOC (Select) <input checked="" type="checkbox"/> B260	SVOC B270 (Select)	C
Work Order	Project Number			B			Tot Metals WQCC + Cations (60201700)
Company Name	Bill To Company	Navajo Refining Company		C			
Send Report To	Invoice Attn	Jeff Byrd		D			Anions: Cl, F, SO ₄ , NO ₃ , NO ₂
Address	Address	P.O. Box 159		E			Alkalinity
City/State/Zip	City/State/Zip	Artesia, New Mexico 88211		F			Total Oxydile (9012)
Phone	Phone	(505) 746-3311		G			
Fax	Fax	(505) 746-5421		H			
e-Mail Address	e-Mail Address			I			
No.	Sample Description	Date	Time	J	# Bottles	A	B
1	M16-59	2/2/04	1100	L	9	X	X
2	TEL-4	2/2/04	0910		1	X	X
3	TEL-3		1100		1	X	X
4	TEL-2		1115		1	X	X
5	TEL-1		1130		1	X	X
6							
7							
8							
9							
10							
Sampler(s) Please Print & Sign	Shipment Method	Received by:	Required Turnaround Time: (Check Box)	Results Due Date:			
Relinquished by:	Time: <u>2/2/03</u>	Time: <u>1105</u>	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> STD 10 Wk Days	<input type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> Other _____
Relinquished by:	Date: <u>2/2/03</u>	Time: <u>0910</u>	e-Lab Cooler ID: <u>0910</u>	Cooler Temp: <u>8-4°C</u>	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date: <u>2/2/03</u>	Time: <u>1105</u>	Checked by (Laboratory): <u>Jeff Byrd</u>	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Check List	<input type="checkbox"/> TRRP Level IV
Preservative Key:	1-HCl	Time: <u>2/2/03</u>	Chemical: <u>4-NaOH</u>	<input type="checkbox"/> Level IV SW446/CCLP	<input type="checkbox"/> Other _____		
	2-HNO ₃	Time: <u>2/2/03</u>	Chemical: <u>5-Na₂SO₃</u>	<input type="checkbox"/> Other _____			
	3-H ₂ SO ₄	Time: <u>2/2/03</u>	Chemical: <u>6-NaHSO₄</u>	<input type="checkbox"/> Other _____			

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to e-Lab, Inc.

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? This place otherwise agreed in a formal contract or service provided by e-Lab, Inc.

e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 2/3/2004 9:20:00 AM

Work Order Number 0402010

Received by: RSZ

Checklist completed by RICHARD SANCHEZ

Signature

Date 2/3/04

Reviewed by JH

Initials

Date 2/3/04

Matrix: W

Carrier name FedEx

- | | | | |
|---|---|--|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <u>4.0c, 3.1c</u> <u>002</u> | | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

Adjusted? _____ Checked by _____

Login Notes: MW-59 is labeled as MW-58; logged in as MW-59 per COC. VOC, Wet Chem analysis, Cyanide, and SVOC containers for TEL-3 are labeled as TEL-4; logged in as TEL-3 per COC and differentiated as TEL-3 per sample label times.

Any No and/or NA (not applicable) response must be detailed in the comments section below.



e-Lab, Inc.

10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 281-530-5656 Fax 281-530-5887

January 28, 2004

Jeff Byrd
Navajo Refining Company
P.O. Box 159
Artesia, New Mexico 88211

Tel: (505) 746-5468
Fax: (505) 746-5421

Re: NCL/TEL

Work Order : **0401088**

Dear Jeff Byrd,

e-Lab, Inc. received 9 samples on 1/13/2004 8:40:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by e-Lab, Inc. and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by e-Lab Inc. The total number of pages in this report is 62.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Lora Terrill

Electronically approved by: Patrina A. Dathorne

Lora Terrill
VP Lab Operations

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Project: NCL/TEL
Work Order: 0401088

Work Order Sample Summary

<u>Lab Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
0401088-01	MW-53	Water		1/12/2004 08:20	1/13/2004 08:40	<input type="checkbox"/>
0401088-02	NCL-49	Water		1/12/2004 09:45	1/13/2004 08:40	<input type="checkbox"/>
0401088-03	NCL-32	Water		1/12/2004 10:40	1/13/2004 08:40	<input type="checkbox"/>
0401088-04	MW-55	Water		1/12/2004 11:20	1/13/2004 08:40	<input type="checkbox"/>
0401088-05	MW-54A	Water		1/12/2004 11:40	1/13/2004 08:40	<input type="checkbox"/>
0401088-06	MW-59	Water		1/12/2004 13:15	1/13/2004 08:40	<input type="checkbox"/>
0401088-07	NCL-44	Water		1/12/2004 13:45	1/13/2004 08:40	<input type="checkbox"/>
0401088-08	NCL-33	Water		1/12/2004 14:00	1/13/2004 08:40	<input type="checkbox"/>
0401088-09	NCL-34	Water		1/12/2004 15:30	1/13/2004 08:40	<input type="checkbox"/>

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-01

Client Sample ID: MW-53
Collection Date: 1/12/2004 8:20:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	1/14/2004 5:01:50 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0111	0.0100		mg/L	1	1/23/2004 2:36:00 PM
Arsenic	ND	0.00500		mg/L	1	1/22/2004 12:34:00 AM
Barium	0.0309	0.00500		mg/L	1	1/22/2004 12:34:00 AM
Beryllium	ND	0.00200		mg/L	1	1/22/2004 10:29:00 PM
Boron	0.396	0.0200		mg/L	1	1/22/2004 10:29:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004 12:34:00 AM
Calcium	115	10.0		mg/L	20	1/23/2004 3:29:00 PM
Chromium	ND	0.00200		mg/L	1	1/22/2004 12:34:00 AM
Cobalt	0.00644	0.00200		mg/L	1	1/22/2004 12:34:00 AM
Copper	0.00380	0.00200		mg/L	1	1/22/2004 12:34:00 AM
Iron	1.40	0.200		mg/L	1	1/22/2004 12:34:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004 12:34:00 AM
Magnesium	68.2	4.00		mg/L	20	1/23/2004 3:29:00 PM
Manganese	0.778	0.100		mg/L	20	1/23/2004 3:29:00 PM
Nickel	0.0103	0.00500		mg/L	1	1/22/2004 12:34:00 AM
Potassium	1.18	0.200		mg/L	1	1/22/2004 12:34:00 AM
Selenium	ND	0.00500		mg/L	1	1/22/2004 12:34:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004 12:34:00 AM
Sodium	49.6	4.00		mg/L	20	1/23/2004 3:29:00 PM
Vanadium	0.00880	0.00500		mg/L	1	1/22/2004 12:34:00 AM
Zinc	0.0116	0.00500		mg/L	1	1/22/2004 12:34:00 AM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	1/22/2004 12:55:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	1/22/2004 12:55:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
2-Methylphenol	ND	10		µg/L	1	1/22/2004 12:55:00 AM
2-Nitroaniline	ND	10		µg/L	1	1/22/2004 12:55:00 AM
2-Nitrophenol	ND	10		µg/L	1	1/22/2004 12:55:00 AM
3-Nitroaniline	ND	10		µg/L	1	1/22/2004 12:55:00 AM
4-Methylphenol	ND	10		µg/L	1	1/22/2004 12:55:00 AM
4-Nitroaniline	ND	10		µg/L	1	1/22/2004 12:55:00 AM
4-Nitrophenol	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Acenaphthene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Acenaphthylene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Aniline	ND	10		µg/L	1	1/22/2004 12:55:00 AM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-01

Client Sample ID: MW-53
Collection Date: 1/12/2004 8:20:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Benzidine	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Hexachloroethane	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Isophorone	ND	10		µg/L	1	1/22/2004 12:55:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/22/2004 12:55:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/22/2004 12:55:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Naphthalene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Nitrobenzene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Phenanthrene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Phenol	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Pyrene	ND	10		µg/L	1	1/22/2004 12:55:00 AM
Surr: 2,4,6-Tribromophenol	93.1	39-153		%REC	1	1/22/2004 12:55:00 AM
Surr: 2-Fluorobiphenyl	96.0	40-147		%REC	1	1/22/2004 12:55:00 AM
Surr: 2-Fluorophenol	32.6	21-100		%REC	1	1/22/2004 12:55:00 AM
Surr: 4-Terphenyl-d14	97.8	39-141		%REC	1	1/22/2004 12:55:00 AM
Surr: Nitrobenzene-d5	84.5	37-140		%REC	1	1/22/2004 12:55:00 AM
Surr: Phenol-d6	18.7	11-100		%REC	1	1/22/2004 12:55:00 AM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1/13/2004 9:42:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1/13/2004 9:42:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	1/13/2004 9:42:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	1/13/2004 9:42:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	1/13/2004 9:42:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	1/13/2004 9:42:00 PM
2-Butanone	ND	10	µg/L	1/13/2004 9:42:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	1/13/2004 9:42:00 PM
2-Hexanone	ND	10	µg/L	1/13/2004 9:42:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	1/13/2004 9:42:00 PM
Acetone	ND	10	µg/L	1/13/2004 9:42:00 PM
Benzene	ND	5.0	µg/L	1/13/2004 9:42:00 PM
Bromodichloromethane	ND	5.0	µg/L	1/13/2004 9:42:00 PM
Bromoform	ND	5.0	µg/L	1/13/2004 9:42:00 PM
Bromomethane	ND	5.0	µg/L	1/13/2004 9:42:00 PM
Carbon disulfide	ND	10	µg/L	1/13/2004 9:42:00 PM
Carbon tetrachloride	ND	5.0	µg/L	1/13/2004 9:42:00 PM
Chlorobenzene	ND	5.0	µg/L	1/13/2004 9:42:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-01

Client Sample ID: MW-53
Collection Date: 1/12/2004 8:20:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
Chloroform	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
Chloromethane	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
Ethylbenzene	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
m,p-Xylene	ND	10		µg/L	1	1/13/2004 9:42:00 PM
Methylene chloride	ND	10		µg/L	1	1/13/2004 9:42:00 PM
Styrene	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
Toluene	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
Trichloroethene	ND	5.0		µg/L	1	1/13/2004 9:42:00 PM
Vinyl acetate	ND	10		µg/L	1	1/13/2004 9:42:00 PM
Vinyl chloride	ND	2.0		µg/L	1	1/13/2004 9:42:00 PM
Xylenes, Total	ND	15		µg/L	1	1/13/2004 9:42:00 PM
Surr: 1,2-Dichloroethane-d4	93.3	70-130		%REC	1	1/13/2004 9:42:00 PM
Surr: 4-Bromofluorobenzene	94.3	70-130		%REC	1	1/13/2004 9:42:00 PM
Surr: Dibromofluoromethane	95.1	70-130		%REC	1	1/13/2004 9:42:00 PM
Surr: Toluene-d8	88.7	70-130		%REC	1	1/13/2004 9:42:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	52.8	2.50	mg/L	5
Fluoride	1.46	0.100	mg/L	1
Sulfate	1,140	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	106	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	115	80-120	%REC	5
Surr: Dichloroacetic acid (surr)	103	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	314	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	314	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-02

Client Sample ID: NCL-49
Collection Date: 1/12/2004 9:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
Mercury	ND	0.000200		mg/L	1	1/14/2004 5:03:23 PM
ICP METALS, TOTAL						
Aluminum	0.0132	0.0100		mg/L	1	1/23/2004 2:41:00 PM
Arsenic	ND	0.00500		mg/L	1	1/22/2004 12:39:00 AM
Barium	0.0122	0.00500		mg/L	1	1/22/2004 12:39:00 AM
Beryllium	ND	0.00200		mg/L	1	1/22/2004 10:34:00 PM
Boron	0.281	0.0200		mg/L	1	1/22/2004 10:34:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004 12:39:00 AM
Calcium	515	25.0		mg/L	50	1/23/2004 3:34:00 PM
Chromium	0.00556	0.00200		mg/L	1	1/22/2004 12:39:00 AM
Cobalt	ND	0.00200		mg/L	1	1/22/2004 12:39:00 AM
Copper	0.310	0.00200		mg/L	1	1/22/2004 12:39:00 AM
Iron	2.53	0.200		mg/L	1	1/22/2004 12:39:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004 12:39:00 AM
Magnesium	236	10.0		mg/L	50	1/23/2004 3:34:00 PM
Manganese	ND	0.00500		mg/L	1	1/22/2004 12:39:00 AM
Nickel	0.00833	0.00500		mg/L	1	1/22/2004 12:39:00 AM
Potassium	0.794	0.200		mg/L	1	1/22/2004 12:39:00 AM
Selenium	0.0106	0.00500		mg/L	1	1/22/2004 12:39:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004 12:39:00 AM
Sodium	125	10.0		mg/L	50	1/23/2004 3:34:00 PM
Vanadium	0.0114	0.00500		mg/L	1	1/22/2004 12:39:00 AM
Zinc	1.00	0.0500		mg/L	10	1/23/2004 4:23:00 PM
SEMOVOLATILE ORGANICS BY GC/MS						
			SW8270		Prep Date: 1/14/2004	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
2,4,5-Trichlorophenol	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
2,4,6-Trichlorophenol	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
2-Methylnaphthalene	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
2-Methylphenol	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
2-Nitroaniline	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
2-Nitrophenol	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
3-Nitroaniline	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
4-Methylphenol	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
4-Nitroaniline	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
4-Nitrophenol	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
Acenaphthene	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
Acenaphthylene	ND	10	µg/L	1	1/22/2004 1:23:00 AM	
Aniline	ND	10	µg/L	1	1/22/2004 1:23:00 AM	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-02

Client Sample ID: NCL-49
Collection Date: 1/12/2004 9:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Benzidine	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Hexachloroethane	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Isophorone	ND	10		µg/L	1	1/22/2004 1:23:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/22/2004 1:23:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/22/2004 1:23:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Naphthalene	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Nitrobenzene	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Phenanthrene	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Phenol	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Pyrene	ND	10		µg/L	1	1/22/2004 1:23:00 AM
Surr: 2,4,6-Tribromophenol	89.0	39-153		%REC	1	1/22/2004 1:23:00 AM
Surr: 2-Fluorobiphenyl	95.8	40-147		%REC	1	1/22/2004 1:23:00 AM
Surr: 2-Fluorophenol	32.4	21-100		%REC	1	1/22/2004 1:23:00 AM
Surr: 4-Terphenyl-d14	100	39-141		%REC	1	1/22/2004 1:23:00 AM
Surr: Nitrobenzene-d5	87.5	37-140		%REC	1	1/22/2004 1:23:00 AM
Surr: Phenol-d6	17.8	11-100		%REC	1	1/22/2004 1:23:00 AM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1/14/2004 8:26:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1/14/2004 8:26:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	1/14/2004 8:26:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	1/14/2004 8:26:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	1/14/2004 8:26:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	1/14/2004 8:26:00 AM
2-Butanone	ND	10	µg/L	1/14/2004 8:26:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	1/14/2004 8:26:00 AM
2-Hexanone	ND	10	µg/L	1/14/2004 8:26:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	1/14/2004 8:26:00 AM
Acetone	ND	10	µg/L	1/14/2004 8:26:00 AM
Benzene	ND	5.0	µg/L	1/14/2004 8:26:00 AM
Bromodichloromethane	ND	5.0	µg/L	1/14/2004 8:26:00 AM
Bromoform	ND	5.0	µg/L	1/14/2004 8:26:00 AM
Bromomethane	ND	5.0	µg/L	1/14/2004 8:26:00 AM
Carbon disulfide	ND	10	µg/L	1/14/2004 8:26:00 AM
Carbon tetrachloride	ND	5.0	µg/L	1/14/2004 8:26:00 AM
Chlorobenzene	ND	5.0	µg/L	1/14/2004 8:26:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-02

Client Sample ID: NCL-49
Collection Date: 1/12/2004 9:45:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
Chloroform	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
Chloromethane	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
Ethylbenzene	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
m,p-Xylene	ND	10		µg/L	1	1/14/2004 8:26:00 AM
Methylene chloride	ND	10		µg/L	1	1/14/2004 8:26:00 AM
Styrene	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
Toluene	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
Trichloroethene	ND	5.0		µg/L	1	1/14/2004 8:26:00 AM
Vinyl acetate	ND	10		µg/L	1	1/14/2004 8:26:00 AM
Vinyl chloride	ND	2.0		µg/L	1	1/14/2004 8:26:00 AM
Xylenes, Total	ND	15		µg/L	1	1/14/2004 8:26:00 AM
Surr: 1,2-Dichloroethane-d4	97.1	70-130		%REC	1	1/14/2004 8:26:00 AM
Surr: 4-Bromofluorobenzene	92.5	70-130		%REC	1	1/14/2004 8:26:00 AM
Surr: Dibromofluoromethane	96.4	70-130		%REC	1	1/14/2004 8:26:00 AM
Surr: Toluene-d8	87.8	70-130		%REC	1	1/14/2004 8:26:00 AM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	185	5.00	mg/L	10	1/14/2004 2:08:00 AM
Fluoride	1.00	0.100	mg/L	1	1/13/2004 6:32:00 PM
Sulfate	1,660	100	mg/L	100	1/22/2004 6:04:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	1/13/2004 6:32:00 PM
Surr: Dichloroacetic acid (surr)	113	80-120	%REC	1	1/13/2004 6:32:00 PM
Surr: Dichloroacetic acid (surr)	109	80-120	%REC	10	1/14/2004 2:08:00 AM
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	100	1/22/2004 6:04:00 AM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	206	5.00	mg/L	1	1/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	1/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	1/14/2004
Alkalinity, Total (As CaCO ₃)	206	5.00	mg/L	1	1/14/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	1/16/2004
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date: January 28, 2004**

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-03

Client Sample ID: NCL-32
Collection Date: 1/12/2004 10:40:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	1/14/2004 5:04:54 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	1/22/2004 12:44:00 AM
Arsenic	ND	0.00500		mg/L	1	1/22/2004 12:44:00 AM
Barium	0.0154	0.00500		mg/L	1	1/22/2004 12:44:00 AM
Beryllium	ND	0.00200		mg/L	1	1/22/2004 10:39:00 PM
Boron	0.292	0.0200		mg/L	1	1/22/2004 10:39:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004 12:44:00 AM
Calcium	454	25.0		mg/L	50	1/23/2004 3:38:00 PM
Chromium	0.00589	0.00200		mg/L	1	1/22/2004 12:44:00 AM
Cobalt	0.00424	0.00200		mg/L	1	1/22/2004 12:44:00 AM
Copper	0.693	0.0200		mg/L	10	1/26/2004 2:24:00 PM
Iron	2.69	0.200		mg/L	1	1/22/2004 12:44:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004 12:44:00 AM
Magnesium	171	2.00		mg/L	10	1/23/2004 4:27:00 PM
Manganese	0.950	0.0500		mg/L	10	1/23/2004 4:27:00 PM
Nickel	0.0126	0.00500		mg/L	1	1/22/2004 12:44:00 AM
Potassium	3.70	0.200		mg/L	1	1/22/2004 12:44:00 AM
Selenium	ND	0.00500		mg/L	1	1/22/2004 12:44:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004 12:44:00 AM
Sodium	84.7	2.00		mg/L	10	1/23/2004 4:27:00 PM
Vanadium	0.0111	0.00500		mg/L	1	1/22/2004 12:44:00 AM
Zinc	1.21	0.0500		mg/L	10	1/23/2004 4:27:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	1/22/2004 1:50:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	1/22/2004 1:50:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
2-Methylphenol	ND	10		µg/L	1	1/22/2004 1:50:00 AM
2-Nitroaniline	ND	10		µg/L	1	1/22/2004 1:50:00 AM
2-Nitrophenol	ND	10		µg/L	1	1/22/2004 1:50:00 AM
3-Nitroaniline	ND	10		µg/L	1	1/22/2004 1:50:00 AM
4-Methylphenol	ND	10		µg/L	1	1/22/2004 1:50:00 AM
4-Nitroaniline	ND	10		µg/L	1	1/22/2004 1:50:00 AM
4-Nitrophenol	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Acenaphthene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Acenaphthylene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Aniline	ND	10		µg/L	1	1/22/2004 1:50:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-03

Client Sample ID: NCL-32
Collection Date: 1/12/2004 10:40:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Benzidine	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Hexachloroethane	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Isophorone	ND	10		µg/L	1	1/22/2004 1:50:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/22/2004 1:50:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/22/2004 1:50:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Naphthalene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Nitrobenzene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Phenanthrene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Phenol	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Pyrene	ND	10		µg/L	1	1/22/2004 1:50:00 AM
Surr: 2,4,6-Tribromophenol	93.5	39-153		%REC	1	1/22/2004 1:50:00 AM
Surr: 2-Fluorobiphenyl	87.3	40-147		%REC	1	1/22/2004 1:50:00 AM
Surr: 2-Fluorophenol	25.4	21-100		%REC	1	1/22/2004 1:50:00 AM
Surr: 4-Terphenyl-d14	89.9	39-141		%REC	1	1/22/2004 1:50:00 AM
Surr: Nitrobenzene-d5	79.5	37-140		%REC	1	1/22/2004 1:50:00 AM
Surr: Phenol-d6	15.1	11-100		%REC	1	1/22/2004 1:50:00 AM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1/14/2004 8:53:00 AM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1/14/2004 8:53:00 AM
1,1,2-Trichloroethane	ND	5.0	µg/L	1/14/2004 8:53:00 AM
1,1-Dichloroethane	ND	5.0	µg/L	1/14/2004 8:53:00 AM
1,1-Dichloroethene	ND	5.0	µg/L	1/14/2004 8:53:00 AM
1,2-Dichloroethane	ND	5.0	µg/L	1/14/2004 8:53:00 AM
2-Butanone	ND	10	µg/L	1/14/2004 8:53:00 AM
2-Chloroethyl vinyl ether	ND	10	µg/L	1/14/2004 8:53:00 AM
2-Hexanone	ND	10	µg/L	1/14/2004 8:53:00 AM
4-Methyl-2-pentanone	ND	10	µg/L	1/14/2004 8:53:00 AM
Acetone	ND	10	µg/L	1/14/2004 8:53:00 AM
Benzene	ND	5.0	µg/L	1/14/2004 8:53:00 AM
Bromodichloromethane	ND	5.0	µg/L	1/14/2004 8:53:00 AM
Bromoform	ND	5.0	µg/L	1/14/2004 8:53:00 AM
Bromomethane	ND	5.0	µg/L	1/14/2004 8:53:00 AM
Carbon disulfide	ND	10	µg/L	1/14/2004 8:53:00 AM
Carbon tetrachloride	ND	5.0	µg/L	1/14/2004 8:53:00 AM
Chlorobenzene	ND	5.0	µg/L	1/14/2004 8:53:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date: January 28, 2004**

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-03

Client Sample ID: NCL-32
Collection Date: 1/12/2004 10:40:00 AM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
Chloroform	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
Chloromethane	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
Dibromochloromethane	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
Ethylbenzene	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
m,p-Xylene	ND	10		µg/L	1	1/14/2004 8:53:00 AM
Methylene chloride	ND	10		µg/L	1	1/14/2004 8:53:00 AM
Styrene	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
Tetrachloroethene	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
Toluene	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
Trichloroethene	ND	5.0		µg/L	1	1/14/2004 8:53:00 AM
Vinyl acetate	ND	10		µg/L	1	1/14/2004 8:53:00 AM
Vinyl chloride	ND	2.0		µg/L	1	1/14/2004 8:53:00 AM
Xylenes, Total	ND	15		µg/L	1	1/14/2004 8:53:00 AM
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	1/14/2004 8:53:00 AM
Surr: 4-Bromofluorobenzene	93.8	70-130		%REC	1	1/14/2004 8:53:00 AM
Surr: Dibromofluoromethane	95.9	70-130		%REC	1	1/14/2004 8:53:00 AM
Surr: Toluene-d8	88.4	70-130		%REC	1	1/14/2004 8:53:00 AM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	224	5.00	mg/L	10
Fluoride	1.59	0.100	mg/L	1
Sulfate	1,210	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	97.8	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	116	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	101	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	324	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	324	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-04

Client Sample ID: MW-55
Collection Date: 1/12/2004 11:20:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
Mercury	ND	0.000200		mg/L	1	1/14/2004 5:06:25 PM
ICP METALS, TOTAL						
Aluminum	0.0236	0.0100		mg/L	1	1/22/2004 12:49:00 AM
Arsenic	0.00782	0.00500		mg/L	1	1/22/2004 12:49:00 AM
Barium	0.0116	0.00500		mg/L	1	1/22/2004 12:49:00 AM
Beryllium	ND	0.00200		mg/L	1	1/22/2004 10:43:00 PM
Boron	0.513	0.0200		mg/L	1	1/22/2004 10:43:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004 12:49:00 AM
Calcium	417	25.0		mg/L	50	1/23/2004 3:43:00 PM
Chromium	0.00374	0.00200		mg/L	1	1/22/2004 12:49:00 AM
Cobalt	0.00224	0.00200		mg/L	1	1/22/2004 12:49:00 AM
Copper	0.541	0.0100		mg/L	5	1/26/2004 2:29:00 PM
Iron	2.20	0.200		mg/L	1	1/22/2004 12:49:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004 12:49:00 AM
Magnesium	245	10.0		mg/L	50	1/23/2004 3:43:00 PM
Manganese	0.488	0.00500		mg/L	1	1/22/2004 12:49:00 AM
Nickel	0.0140	0.00500		mg/L	1	1/22/2004 12:49:00 AM
Potassium	0.903	0.200		mg/L	1	1/22/2004 12:49:00 AM
Selenium	0.00895	0.00500		mg/L	1	1/22/2004 12:49:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004 12:49:00 AM
Sodium	186	10.0		mg/L	50	1/23/2004 3:43:00 PM
Vanadium	0.0153	0.00500		mg/L	1	1/22/2004 12:49:00 AM
Zinc	0.437	0.0250		mg/L	5	1/23/2004 4:32:00 PM
SEMOVOLATILE ORGANICS BY GC/MS						
			SW8270		Prep Date: 1/14/2004	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
2,4,5-Trichlorophenol	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
2,4,6-Trichlorophenol	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
2-Methylnaphthalene	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
2-Methylphenol	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
2-Nitroaniline	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
2-Nitrophenol	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
3-Nitroaniline	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
4-Methylphenol	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
4-Nitroaniline	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
4-Nitrophenol	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
Acenaphthene	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
Acenaphthylene	ND	10	µg/L	1	1/22/2004 2:17:00 AM	
Aniline	ND	10	µg/L	1	1/22/2004 2:17:00 AM	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-04

Client Sample ID: MW-55
Collection Date: 1/12/2004 11:20:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Benzidine	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Hexachloroethane	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Isophorone	ND	10		µg/L	1	1/22/2004 2:17:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/22/2004 2:17:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/22/2004 2:17:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Naphthalene	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Nitrobenzene	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Phenanthrene	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Phenol	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Pyrene	ND	10		µg/L	1	1/22/2004 2:17:00 AM
Surr: 2,4,6-Tribromophenol	91.4	39-153		%REC	1	1/22/2004 2:17:00 AM
Surr: 2-Fluorobiphenyl	98.6	40-147		%REC	1	1/22/2004 2:17:00 AM
Surr: 2-Fluorophenol	31.7	21-100		%REC	1	1/22/2004 2:17:00 AM
Surr: 4-Terphenyl-d14	94.5	39-141		%REC	1	1/22/2004 2:17:00 AM
Surr: Nitrobenzene-d5	86.6	37-140		%REC	1	1/22/2004 2:17:00 AM
Surr: Phenol-d6	17.2	11-100		%REC	1	1/22/2004 2:17:00 AM

VOLATILES BY GC/MS

		SW8260	Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L 1/14/2004 12:18:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L 1/14/2004 12:18:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L 1/14/2004 12:18:00 PM
1,1-Dichloroethane	ND	5.0	µg/L 1/14/2004 12:18:00 PM
1,1-Dichloroethene	ND	5.0	µg/L 1/14/2004 12:18:00 PM
1,2-Dichloroethane	ND	5.0	µg/L 1/14/2004 12:18:00 PM
2-Butanone	ND	10	µg/L 1/14/2004 12:18:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L 1/14/2004 12:18:00 PM
2-Hexanone	ND	10	µg/L 1/14/2004 12:18:00 PM
4-Methyl-2-pentanone	ND	10	µg/L 1/14/2004 12:18:00 PM
Acetone	ND	10	µg/L 1/14/2004 12:18:00 PM
Benzene	ND	5.0	µg/L 1/14/2004 12:18:00 PM
Bromodichloromethane	ND	5.0	µg/L 1/14/2004 12:18:00 PM
Bromoform	ND	5.0	µg/L 1/14/2004 12:18:00 PM
Bromomethane	ND	5.0	µg/L 1/14/2004 12:18:00 PM
Carbon disulfide	ND	10	µg/L 1/14/2004 12:18:00 PM
Carbon tetrachloride	ND	5.0	µg/L 1/14/2004 12:18:00 PM
Chlorobenzene	ND	5.0	µg/L 1/14/2004 12:18:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-04

Client Sample ID: MW-55
Collection Date: 1/12/2004 11:20:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
Chloroform	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
Chloromethane	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
Ethylbenzene	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
m,p-Xylene	ND	10		µg/L	1	1/14/2004 12:18:00 PM
Methylene chloride	ND	10		µg/L	1	1/14/2004 12:18:00 PM
Styrene	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
Toluene	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
Trichloroethene	ND	5.0		µg/L	1	1/14/2004 12:18:00 PM
Vinyl acetate	ND	10		µg/L	1	1/14/2004 12:18:00 PM
Vinyl chloride	ND	2.0		µg/L	1	1/14/2004 12:18:00 PM
Xylenes, Total	ND	15		µg/L	1	1/14/2004 12:18:00 PM
Surr: 1,2-Dichloroethane-d4	99.0	70-130		%REC	1	1/14/2004 12:18:00 PM
Surr: 4-Bromofluorobenzene	95.1	70-130		%REC	1	1/14/2004 12:18:00 PM
Surr: Dibromofluoromethane	97.6	70-130		%REC	1	1/14/2004 12:18:00 PM
Surr: Toluene-d8	88.3	70-130		%REC	1	1/14/2004 12:18:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	258	5.00	mg/L	10	1/14/2004 4:18:00 AM
Fluoride	1.27	0.100	mg/L	1	1/13/2004 7:37:00 PM
Sulfate	1,470	100	mg/L	100	1/22/2004 7:09:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	1/13/2004 7:37:00 PM
Surr: Dichloroacetic acid (surr)	97.0	80-120	%REC	1	1/13/2004 7:37:00 PM
Surr: Dichloroacetic acid (surr)	119	80-120	%REC	10	1/14/2004 4:18:00 AM
Surr: Dichloroacetic acid (surr)	100	80-120	%REC	100	1/22/2004 7:09:00 AM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	382	5.00	mg/L	1	1/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	1/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	1/14/2004
Alkalinity, Total (As CaCO ₃)	382	5.00	mg/L	1	1/14/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	1/16/2004
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Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

P - Dual Column results percent difference > 40%

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

* - Value exceeds Maximum Contaminant Level

H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-05

Client Sample ID: MW-54A
Collection Date: 1/12/2004 11:40:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL						
Mercury	ND	0.000200		mg/L	1	1/14/2004 5:08:05 PM
ICP METALS, TOTAL						
Aluminum	0.0227	0.0100		mg/L	1	1/22/2004 1:40:00 AM
Arsenic	0.00707	0.00500		mg/L	1	1/22/2004 1:40:00 AM
Barium	0.0182	0.00500		mg/L	1	1/22/2004 1:40:00 AM
Beryllium	ND	0.00200		mg/L	1	1/22/2004 10:48:00 PM
Boron	0.305	0.0200		mg/L	1	1/22/2004 10:48:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004 1:40:00 AM
Calcium	331	25.0		mg/L	50	1/23/2004 3:47:00 PM
Chromium	0.00333	0.00200		mg/L	1	1/22/2004 1:40:00 AM
Cobalt	0.00319	0.00200		mg/L	1	1/22/2004 1:40:00 AM
Copper	0.695	0.0100		mg/L	5	1/26/2004 2:33:00 PM
Iron	2.35	0.200		mg/L	1	1/22/2004 1:40:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004 1:40:00 AM
Magnesium	110	10.0		mg/L	50	1/23/2004 3:47:00 PM
Manganese	0.417	0.0250		mg/L	5	1/23/2004 4:37:00 PM
Nickel	0.0101	0.00500		mg/L	1	1/22/2004 1:40:00 AM
Potassium	0.223	0.200		mg/L	1	1/22/2004 1:40:00 AM
Selenium	ND	0.00500		mg/L	1	1/22/2004 1:40:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004 1:40:00 AM
Sodium	46.7	1.00		mg/L	5	1/23/2004 4:37:00 PM
Vanadium	ND	0.00500		mg/L	1	1/22/2004 1:40:00 AM
Zinc	0.446	0.0250		mg/L	5	1/23/2004 4:37:00 PM
SEMOVOLATILE ORGANICS BY GC/MS						
			SW8270		Prep Date: 1/14/2004	Analyst: HV
1,2,4-Trichlorobenzene	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
2,4,5-Trichlorophenol	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
2,4,6-Trichlorophenol	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
2-Methylnaphthalene	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
2-Methylphenol	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
2-Nitroaniline	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
2-Nitrophenol	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
3-Nitroaniline	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
4-Methylphenol	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
4-Nitroaniline	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
4-Nitrophenol	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
Acenaphthene	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
Acenaphthylene	ND	10	µg/L	1	1/22/2004 2:44:00 AM	
Aniline	ND	10	µg/L	1	1/22/2004 2:44:00 AM	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-05

Client Sample ID: MW-54A
Collection Date: 1/12/2004 11:40:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Benzidine	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Hexachloroethane	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Isophorone	ND	10		µg/L	1	1/22/2004 2:44:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/22/2004 2:44:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/22/2004 2:44:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Naphthalene	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Nitrobenzene	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Phenanthrene	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Phenol	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Pyrene	ND	10		µg/L	1	1/22/2004 2:44:00 AM
Surr: 2,4,6-Tribromophenol	107	39-153		%REC	1	1/22/2004 2:44:00 AM
Surr: 2-Fluorobiphenyl	99.5	40-147		%REC	1	1/22/2004 2:44:00 AM
Surr: 2-Fluorophenol	34.6	21-100		%REC	1	1/22/2004 2:44:00 AM
Surr: 4-Terphenyl-d14	99.6	39-141		%REC	1	1/22/2004 2:44:00 AM
Surr: Nitrobenzene-d5	97.5	37-140		%REC	1	1/22/2004 2:44:00 AM
Surr: Phenol-d6	22.5	11-100		%REC	1	1/22/2004 2:44:00 AM

VOLATILES BY GC/MS

		SW8260	Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L 1/14/2004 12:45:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L 1/14/2004 12:45:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L 1/14/2004 12:45:00 PM
1,1-Dichloroethane	ND	5.0	µg/L 1/14/2004 12:45:00 PM
1,1-Dichloroethene	ND	5.0	µg/L 1/14/2004 12:45:00 PM
1,2-Dichloroethane	ND	5.0	µg/L 1/14/2004 12:45:00 PM
2-Butanone	ND	10	µg/L 1/14/2004 12:45:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L 1/14/2004 12:45:00 PM
2-Hexanone	ND	10	µg/L 1/14/2004 12:45:00 PM
4-Methyl-2-pentanone	ND	10	µg/L 1/14/2004 12:45:00 PM
Acetone	ND	10	µg/L 1/14/2004 12:45:00 PM
Benzene	ND	5.0	µg/L 1/14/2004 12:45:00 PM
Bromodichloromethane	ND	5.0	µg/L 1/14/2004 12:45:00 PM
Bromoform	ND	5.0	µg/L 1/14/2004 12:45:00 PM
Bromomethane	ND	5.0	µg/L 1/14/2004 12:45:00 PM
Carbon disulfide	ND	10	µg/L 1/14/2004 12:45:00 PM
Carbon tetrachloride	ND	5.0	µg/L 1/14/2004 12:45:00 PM
Chlorobenzene	ND	5.0	µg/L 1/14/2004 12:45:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date: January 28, 2004**

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-05

Client Sample ID: MW-54A
Collection Date: 1/12/2004 11:40:00 AM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
Chloroform	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
Chloromethane	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
Ethylbenzene	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
m,p-Xylene	ND	10		µg/L	1	1/14/2004 12:45:00 PM
Methylene chloride	ND	10		µg/L	1	1/14/2004 12:45:00 PM
Styrene	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
Toluene	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
Trichloroethene	ND	5.0		µg/L	1	1/14/2004 12:45:00 PM
Vinyl acetate	ND	10		µg/L	1	1/14/2004 12:45:00 PM
Vinyl chloride	ND	2.0		µg/L	1	1/14/2004 12:45:00 PM
Xylenes, Total	ND	15		µg/L	1	1/14/2004 12:45:00 PM
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%REC	1	1/14/2004 12:45:00 PM
Surr: 4-Bromofluorobenzene	93.6	70-130		%REC	1	1/14/2004 12:45:00 PM
Surr: Dibromofluoromethane	97.7	70-130		%REC	1	1/14/2004 12:45:00 PM
Surr: Toluene-d8	88.0	70-130		%REC	1	1/14/2004 12:45:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	170	5.00	mg/L	10
Fluoride	1.10	0.100	mg/L	1
Sulfate	624	20.0	mg/L	20
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	98.0	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	116	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	100	80-120	%REC	20

ALKALINITY

		E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	461	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	461	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	P - Dual Column results percent difference > 40%
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-06

Client Sample ID: MW-59
Collection Date: 1/12/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL			SW7470			
Mercury	ND	0.000200		mg/L	1	1/14/2004 5:12:42 PM
ICP METALS, TOTAL			SW6020			
Aluminum	0.102	0.0100		mg/L	1	1/22/2004 1:45:00 AM
Arsenic	0.0684	0.00500		mg/L	1	1/22/2004 1:45:00 AM
Barium	0.0120	0.00500		mg/L	1	1/22/2004 1:45:00 AM
Beryllium	ND	0.00200		mg/L	1	1/22/2004 10:53:00 PM
Boron	0.490	0.0200		mg/L	1	1/22/2004 10:53:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004 1:45:00 AM
Calcium	347	25.0		mg/L	50	1/23/2004 3:51:00 PM
Chromium	0.00267	0.00200		mg/L	1	1/22/2004 1:45:00 AM
Cobalt	0.00858	0.00200		mg/L	1	1/22/2004 1:45:00 AM
Copper	0.793	0.0100		mg/L	5	1/26/2004 2:38:00 PM
Iron	4.81	0.200		mg/L	1	1/22/2004 1:45:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004 1:45:00 AM
Magnesium	294	10.0		mg/L	50	1/23/2004 3:51:00 PM
Manganese	0.688	0.0250		mg/L	5	1/23/2004 4:41:00 PM
Nickel	0.0137	0.00500		mg/L	1	1/22/2004 1:45:00 AM
Potassium	0.374	0.200		mg/L	1	1/22/2004 1:45:00 AM
Selenium	ND	0.00500		mg/L	1	1/22/2004 1:45:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004 1:45:00 AM
Sodium	224	10.0		mg/L	50	1/23/2004 3:51:00 PM
Vanadium	ND	0.00500		mg/L	1	1/22/2004 1:45:00 AM
Zinc	0.386	0.0250		mg/L	5	1/23/2004 4:41:00 PM
SEMOVOLATILE ORGANICS BY GC/MS			SW8270			
1,2,4-Trichlorobenzene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	1/22/2004 3:12:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	1/22/2004 3:12:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
2-Methylphenol	ND	10		µg/L	1	1/22/2004 3:12:00 AM
2-Nitroaniline	ND	10		µg/L	1	1/22/2004 3:12:00 AM
2-Nitrophenol	ND	10		µg/L	1	1/22/2004 3:12:00 AM
3-Nitroaniline	ND	10		µg/L	1	1/22/2004 3:12:00 AM
4-Methylphenol	ND	10		µg/L	1	1/22/2004 3:12:00 AM
4-Nitroaniline	ND	10		µg/L	1	1/22/2004 3:12:00 AM
4-Nitrophenol	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Acenaphthene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Acenaphthylene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Aniline	ND	10		µg/L	1	1/22/2004 3:12:00 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-06

Client Sample ID: MW-59
Collection Date: 1/12/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Benzidine	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Hexachloroethane	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Isophorone	ND	10		µg/L	1	1/22/2004 3:12:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/22/2004 3:12:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/22/2004 3:12:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Naphthalene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Nitrobenzene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Phenanthrene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Phenol	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Pyrene	ND	10		µg/L	1	1/22/2004 3:12:00 AM
Surr: 2,4,6-Tribromophenol	108	39-153		%REC	1	1/22/2004 3:12:00 AM
Surr: 2-Fluorobiphenyl	97.7	40-147		%REC	1	1/22/2004 3:12:00 AM
Surr: 2-Fluorophenol	34.5	21-100		%REC	1	1/22/2004 3:12:00 AM
Surr: 4-Terphenyl-d14	97.5	39-141		%REC	1	1/22/2004 3:12:00 AM
Surr: Nitrobenzene-d5	90.0	37-140		%REC	1	1/22/2004 3:12:00 AM
Surr: Phenol-d6	19.0	11-100		%REC	1	1/22/2004 3:12:00 AM

VOLATILES BY GC/MS

		SW8260	Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L
1,1,2-Trichloroethane	ND	5.0	µg/L
1,1-Dichloroethane	ND	5.0	µg/L
1,1-Dichloroethene	ND	5.0	µg/L
1,2-Dichloroethane	ND	5.0	µg/L
2-Butanone	ND	10	µg/L
2-Chloroethyl vinyl ether	ND	10	µg/L
2-Hexanone	ND	10	µg/L
4-Methyl-2-pentanone	ND	10	µg/L
Acetone	ND	10	µg/L
Benzene	ND	5.0	µg/L
Bromodichloromethane	ND	5.0	µg/L
Bromoform	ND	5.0	µg/L
Bromomethane	ND	5.0	µg/L
Carbon disulfide	ND	10	µg/L
Carbon tetrachloride	ND	5.0	µg/L
Chlorobenzene	ND	5.0	µg/L

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-06

Client Sample ID: MW-59
Collection Date: 1/12/2004 1:15:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
Chloroform	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
Chloromethane	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
Ethylbenzene	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
m,p-Xylene	ND	10		µg/L	1	1/14/2004 1:11:00 PM
Methylene chloride	ND	10		µg/L	1	1/14/2004 1:11:00 PM
Styrene	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
Toluene	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
Trichloroethene	ND	5.0		µg/L	1	1/14/2004 1:11:00 PM
Vinyl acetate	ND	10		µg/L	1	1/14/2004 1:11:00 PM
Vinyl chloride	ND	2.0		µg/L	1	1/14/2004 1:11:00 PM
Xylenes, Total	ND	15		µg/L	1	1/14/2004 1:11:00 PM
Surr: 1,2-Dichloroethane-d4	97.9	70-130		%REC	1	1/14/2004 1:11:00 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%REC	1	1/14/2004 1:11:00 PM
Surr: Dibromofluoromethane	96.5	70-130		%REC	1	1/14/2004 1:11:00 PM
Surr: Toluene-d8	86.9	70-130		%REC	1	1/14/2004 1:11:00 PM

ANIONS BY ION CHROMATOGRAPHY

		E300		Analyst: MG
Chloride	204	5.00	mg/L	10
Fluoride	1.51	0.100	mg/L	1
Sulfate	1,630	100	mg/L	100
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1
Surr: Dichloroacetic acid (surr)	102	80-120	%REC	1
Surr: Dichloroacetic acid (surr)	116	80-120	%REC	10
Surr: Dichloroacetic acid (surr)	97.4	80-120	%REC	100

ALKALINITY

		E310.1		Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	530	5.00	mg/L	1
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1
Alkalinity, Total (As CaCO ₃)	530	5.00	mg/L	1

CYANIDE, TOTAL

		E335.3		Analyst: LMD
Cyanide	ND	0.0200	mg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-07

Client Sample ID: NCL-44
Collection Date: 1/12/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	1/14/2004 5:14:16 PM
ICP METALS, TOTAL				SW6020		
Aluminum	0.0111	0.0100		mg/L	1	1/22/2004 1:49:00 AM
Arsenic	0.0132	0.00500		mg/L	1	1/22/2004 1:49:00 AM
Barium	0.0314	0.00500		mg/L	1	1/22/2004 1:49:00 AM
Beryllium	0.00233	0.00200		mg/L	1	1/22/2004 10:57:00 PM
Boron	0.327	0.0200		mg/L	1	1/22/2004 10:57:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004 1:49:00 AM
Calcium	301	25.0		mg/L	50	1/23/2004 3:56:00 PM
Chromium	0.00622	0.00200		mg/L	1	1/22/2004 1:49:00 AM
Cobalt	0.00471	0.00200		mg/L	1	1/22/2004 1:49:00 AM
Copper	0.328	0.0100		mg/L	5	1/26/2004 2:42:00 PM
Iron	3.30	0.200		mg/L	1	1/22/2004 1:49:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004 1:49:00 AM
Magnesium	124	10.0		mg/L	50	1/23/2004 3:56:00 PM
Manganese	0.719	0.0500		mg/L	10	1/23/2004 4:46:00 PM
Nickel	0.00953	0.00500		mg/L	1	1/22/2004 1:49:00 AM
Potassium	2.69	0.200		mg/L	1	1/22/2004 1:49:00 AM
Selenium	ND	0.00500		mg/L	1	1/22/2004 1:49:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004 1:49:00 AM
Sodium	ND	0.200		mg/L	1	1/22/2004 1:49:00 AM
Vanadium	ND	0.00500		mg/L	1	1/22/2004 1:49:00 AM
Zinc	1.24	0.0500		mg/L	10	1/23/2004 4:46:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	1/27/2004 12:47:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	1/27/2004 12:47:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
2-Methylphenol	ND	10		µg/L	1	1/27/2004 12:47:00 AM
2-Nitroaniline	ND	10		µg/L	1	1/27/2004 12:47:00 AM
2-Nitrophenol	ND	10		µg/L	1	1/27/2004 12:47:00 AM
3-Nitroaniline	ND	10		µg/L	1	1/27/2004 12:47:00 AM
4-Methylphenol	ND	10		µg/L	1	1/27/2004 12:47:00 AM
4-Nitroaniline	ND	10		µg/L	1	1/27/2004 12:47:00 AM
4-Nitrophenol	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Acenaphthene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Acenaphthylene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Aniline	ND	10		µg/L	1	1/27/2004 12:47:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-07

Client Sample ID: NCL-44
Collection Date: 1/12/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Benzidine	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Hexachloroethane	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Isophorone	ND	10		µg/L	1	1/27/2004 12:47:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/27/2004 12:47:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/27/2004 12:47:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Naphthalene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Nitrobenzene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Phenanthrene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Phenol	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Pyrene	ND	10		µg/L	1	1/27/2004 12:47:00 AM
Surr: 2,4,6-Tribromophenol	108	39-153		%REC	1	1/27/2004 12:47:00 AM
Surr: 2-Fluorobiphenyl	93.7	40-147		%REC	1	1/27/2004 12:47:00 AM
Surr: 2-Fluorophenol	38.0	21-100		%REC	1	1/27/2004 12:47:00 AM
Surr: 4-Terphenyl-d14	90.8	39-141		%REC	1	1/27/2004 12:47:00 AM
Surr: Nitrobenzene-d5	88.1	37-140		%REC	1	1/27/2004 12:47:00 AM
Surr: Phenol-d6	24.4	11-100		%REC	1	1/27/2004 12:47:00 AM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1
1,1,2-Trichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethane	ND	5.0	µg/L	1
1,1-Dichloroethene	ND	5.0	µg/L	1
1,2-Dichloroethane	ND	5.0	µg/L	1
2-Butanone	ND	10	µg/L	1
2-Chloroethyl vinyl ether	ND	10	µg/L	1
2-Hexanone	ND	10	µg/L	1
4-Methyl-2-pentanone	ND	10	µg/L	1
Acetone	ND	10	µg/L	1
Benzene	ND	5.0	µg/L	1
Bromodichloromethane	ND	5.0	µg/L	1
Bromoform	ND	5.0	µg/L	1
Bromomethane	ND	5.0	µg/L	1
Carbon disulfide	ND	10	µg/L	1
Carbon tetrachloride	ND	5.0	µg/L	1
Chlorobenzene	ND	5.0	µg/L	1

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-07

Client Sample ID: NCL-44
Collection Date: 1/12/2004 1:45:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
Chloroform	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
Chloromethane	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
Ethylbenzene	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
m,p-Xylene	ND	10		µg/L	1	1/14/2004 2:32:00 PM
Methylene chloride	ND	10		µg/L	1	1/14/2004 2:32:00 PM
Styrene	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
Toluene	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
Trichloroethene	ND	5.0		µg/L	1	1/14/2004 2:32:00 PM
Vinyl acetate	ND	10		µg/L	1	1/14/2004 2:32:00 PM
Vinyl chloride	ND	2.0		µg/L	1	1/14/2004 2:32:00 PM
Xylenes, Total	ND	15		µg/L	1	1/14/2004 2:32:00 PM
Surr: 1,2-Dichloroethane-d4	85.2	70-130		%REC	1	1/14/2004 2:32:00 PM
Surr: 4-Bromofluorobenzene	95.6	70-130		%REC	1	1/14/2004 2:32:00 PM
Surr: Dibromofluoromethane	86.9	70-130		%REC	1	1/14/2004 2:32:00 PM
Surr: Toluene-d8	87.5	70-130		%REC	1	1/14/2004 2:32:00 PM

ANIONS BY ION CHROMATOGRAPHY**E300**

Analyst: MG

Chloride	210	5.00	mg/L	10	1/14/2004 8:38:00 AM
Fluoride	1.41	0.100	mg/L	1	1/13/2004 10:20:00 PM
Sulfate	458	10.0	mg/L	10	1/14/2004 8:38:00 AM
Nitrate/Nitrite (as N)	ND	0.100	mg/L	1	1/13/2004 10:20:00 PM
Surr: Dichloroacetic acid (surr)	114	80-120	%REC	1	1/13/2004 10:20:00 PM
Surr: Dichloroacetic acid (surr)	115	80-120	%REC	10	1/14/2004 8:38:00 AM

ALKALINITY**E310.1**

Analyst: LMD

Alkalinity, Bicarbonate (As CaCO ₃)	520	5.00	mg/L	1	1/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00	mg/L	1	1/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00	mg/L	1	1/14/2004
Alkalinity, Total (As CaCO ₃)	520	5.00	mg/L	1	1/14/2004

CYANIDE, TOTAL**E335.3**

Analyst: LMD

Cyanide	ND	0.0200	mg/L	1	1/16/2004
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date: January 28, 2004**

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-08

Client Sample ID: NCL-33
Collection Date: 1/12/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed	
MERCURY, TOTAL				SW7470			
Mercury	ND	0.000200		mg/L	1	1/13/2004	Analyst: JCJ 1/14/2004 5:15:49 PM
ICP METALS, TOTAL				SW6020			
Aluminum	0.0447	0.0100		mg/L	1	1/19/2004	Analyst: ALR 1/22/2004 1:54:00 AM
Arsenic	ND	0.00500		mg/L	1	1/22/2004	1:54:00 AM
Barium	0.0470	0.00500		mg/L	1	1/22/2004	1:54:00 AM
Beryllium	ND	0.00200		mg/L	1	1/22/2004	11:02:00 PM
Boron	0.631	0.0200		mg/L	1	1/22/2004	11:02:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004	1:54:00 AM
Calcium	303	10.0		mg/L	20	1/23/2004	4:00:00 PM
Chromium	0.00380	0.00200		mg/L	1	1/22/2004	1:54:00 AM
Cobalt	ND	0.00200		mg/L	1	1/22/2004	1:54:00 AM
Copper	1.42	0.0200		mg/L	10	1/26/2004	2:47:00 PM
Iron	4.34	0.200		mg/L	1	1/22/2004	1:54:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004	1:54:00 AM
Magnesium	110	4.00		mg/L	20	1/23/2004	4:00:00 PM
Manganese	0.0867	0.00500		mg/L	1	1/22/2004	1:54:00 AM
Nickel	0.00708	0.00500		mg/L	1	1/22/2004	1:54:00 AM
Potassium	4.46	0.200		mg/L	1	1/22/2004	1:54:00 AM
Selenium	ND	0.00500		mg/L	1	1/22/2004	1:54:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004	1:54:00 AM
Sodium	90.4	4.00		mg/L	20	1/23/2004	4:00:00 PM
Vanadium	ND	0.00500		mg/L	1	1/22/2004	1:54:00 AM
Zinc	0.517	0.0500		mg/L	10	1/23/2004	4:50:00 PM
SEMOVOLATILE ORGANICS BY GC/MS				SW8270		Prep Date: 1/14/2004	Analyst: HV
1,2,4-Trichlorobenzene	ND	10		µg/L	1	1/27/2004	1:12:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	1/27/2004	1:12:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	1/27/2004	1:12:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	1/27/2004	1:12:00 AM
2-Methylphenol	ND	10		µg/L	1	1/27/2004	1:12:00 AM
2-Nitroaniline	ND	10		µg/L	1	1/27/2004	1:12:00 AM
2-Nitrophenol	ND	10		µg/L	1	1/27/2004	1:12:00 AM
3-Nitroaniline	ND	10		µg/L	1	1/27/2004	1:12:00 AM
4-Methylphenol	ND	10		µg/L	1	1/27/2004	1:12:00 AM
4-Nitroaniline	ND	10		µg/L	1	1/27/2004	1:12:00 AM
4-Nitrophenol	ND	10		µg/L	1	1/27/2004	1:12:00 AM
Acenaphthene	ND	10		µg/L	1	1/27/2004	1:12:00 AM
Acenaphthylene	ND	10		µg/L	1	1/27/2004	1:12:00 AM
Aniline	ND	10		µg/L	1	1/27/2004	1:12:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-08

Client Sample ID: NCL-33
Collection Date: 1/12/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Benzidine	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Hexachloroethane	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Isophorone	ND	10		µg/L	1	1/27/2004 1:12:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/27/2004 1:12:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/27/2004 1:12:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Naphthalene	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Nitrobenzene	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Phenanthrene	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Phenol	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Pyrene	ND	10		µg/L	1	1/27/2004 1:12:00 AM
Surr: 2,4,6-Tribromophenol	109	39-153		%REC	1	1/27/2004 1:12:00 AM
Surr: 2-Fluorobiphenyl	94.2	40-147		%REC	1	1/27/2004 1:12:00 AM
Surr: 2-Fluorophenol	36.7	21-100		%REC	1	1/27/2004 1:12:00 AM
Surr: 4-Terphenyl-d14	89.7	39-141		%REC	1	1/27/2004 1:12:00 AM
Surr: Nitrobenzene-d5	90.4	37-140		%REC	1	1/27/2004 1:12:00 AM
Surr: Phenol-d6	24.2	11-100		%REC	1	1/27/2004 1:12:00 AM

VOLATILES BY GC/MS

		SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0	µg/L	1/14/2004 2:59:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0	µg/L	1/14/2004 2:59:00 PM
1,1,2-Trichloroethane	ND	5.0	µg/L	1/14/2004 2:59:00 PM
1,1-Dichloroethane	ND	5.0	µg/L	1/14/2004 2:59:00 PM
1,1-Dichloroethene	ND	5.0	µg/L	1/14/2004 2:59:00 PM
1,2-Dichloroethane	ND	5.0	µg/L	1/14/2004 2:59:00 PM
2-Butanone	ND	10	µg/L	1/14/2004 2:59:00 PM
2-Chloroethyl vinyl ether	ND	10	µg/L	1/14/2004 2:59:00 PM
2-Hexanone	ND	10	µg/L	1/14/2004 2:59:00 PM
4-Methyl-2-pentanone	ND	10	µg/L	1/14/2004 2:59:00 PM
Acetone	ND	10	µg/L	1/14/2004 2:59:00 PM
Benzene	ND	5.0	µg/L	1/14/2004 2:59:00 PM
Bromodichloromethane	ND	5.0	µg/L	1/14/2004 2:59:00 PM
Bromoform	ND	5.0	µg/L	1/14/2004 2:59:00 PM
Bromomethane	ND	5.0	µg/L	1/14/2004 2:59:00 PM
Carbon disulfide	ND	10	µg/L	1/14/2004 2:59:00 PM
Carbon tetrachloride	ND	5.0	µg/L	1/14/2004 2:59:00 PM
Chlorobenzene	ND	5.0	µg/L	1/14/2004 2:59:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-08

Client Sample ID: NCL-33
Collection Date: 1/12/2004 2:00:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
Chloroform	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
Chloromethane	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
Ethylbenzene	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
m,p-Xylene	ND	10		µg/L	1	1/14/2004 2:59:00 PM
Methylene chloride	ND	10		µg/L	1	1/14/2004 2:59:00 PM
Styrene	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
Toluene	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
Trichloroethene	ND	5.0		µg/L	1	1/14/2004 2:59:00 PM
Vinyl acetate	ND	10		µg/L	1	1/14/2004 2:59:00 PM
Vinyl chloride	ND	2.0		µg/L	1	1/14/2004 2:59:00 PM
Xylenes, Total	ND	15		µg/L	1	1/14/2004 2:59:00 PM
Surr: 1,2-Dichloroethane-d4	85.5	70-130		%REC	1	1/14/2004 2:59:00 PM
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	1	1/14/2004 2:59:00 PM
Surr: Dibromofluoromethane	85.6	70-130		%REC	1	1/14/2004 2:59:00 PM
Surr: Toluene-d8	91.2	70-130		%REC	1	1/14/2004 2:59:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	302	5.00		mg/L	10	1/22/2004 9:51:00 AM
Fluoride	2.77	0.100		mg/L	1	1/13/2004 10:53:00 PM
Sulfate	307	10.0		mg/L	10	1/22/2004 9:51:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	1/13/2004 10:53:00 PM
Sur: Dichloroacetic acid (surr)	95.2	80-120		%REC	1	1/13/2004 10:53:00 PM
Sur: Dichloroacetic acid (surr)	99.0	80-120		%REC	10	1/22/2004 9:51:00 AM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	628	5.00		mg/L	1	1/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	1/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	1/14/2004
Alkalinity, Total (As CaCO ₃)	628	5.00		mg/L	1	1/14/2004
CYANIDE, TOTAL						
			E335.3			Analyst: LMD
Cyanide	ND	0.0200		mg/L	1	1/16/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-09

Client Sample ID: NCL-34
Collection Date: 1/12/2004 3:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
MERCURY, TOTAL				SW7470		
Mercury	ND	0.000200		mg/L	1	1/14/2004 5:17:23 PM
ICP METALS, TOTAL				SW6020		
Aluminum	ND	0.0100		mg/L	1	1/22/2004 1:59:00 AM
Arsenic	ND	0.00500		mg/L	1	1/22/2004 1:59:00 AM
Barium	0.520	0.0250		mg/L	5	1/23/2004 4:55:00 PM
Beryllium	0.00359	0.00200		mg/L	1	1/22/2004 11:07:00 PM
Boron	0.316	0.0200		mg/L	1	1/22/2004 11:07:00 PM
Cadmium	ND	0.00100		mg/L	1	1/22/2004 1:59:00 AM
Calcium	273	25.0		mg/L	50	1/23/2004 4:05:00 PM
Chromium	0.00382	0.00200		mg/L	1	1/22/2004 1:59:00 AM
Cobalt	ND	0.00200		mg/L	1	1/22/2004 1:59:00 AM
Copper	0.538	0.0100		mg/L	5	1/26/2004 2:52:00 PM
Iron	1.98	0.200		mg/L	1	1/22/2004 1:59:00 AM
Lead	ND	0.00500		mg/L	1	1/22/2004 1:59:00 AM
Magnesium	93.2	1.00		mg/L	5	1/23/2004 4:55:00 PM
Manganese	0.108	0.00500		mg/L	1	1/22/2004 1:59:00 AM
Nickel	0.00669	0.00500		mg/L	1	1/22/2004 1:59:00 AM
Potassium	1.16	0.200		mg/L	1	1/22/2004 1:59:00 AM
Selenium	0.00519	0.00500		mg/L	1	1/22/2004 1:59:00 AM
Silver	ND	0.00500		mg/L	1	1/22/2004 1:59:00 AM
Sodium	149	10.0		mg/L	50	1/23/2004 4:05:00 PM
Vanadium	ND	0.00500		mg/L	1	1/22/2004 1:59:00 AM
Zinc	0.408	0.0250		mg/L	5	1/23/2004 4:55:00 PM
SEMIVOLATILE ORGANICS BY GC/MS				SW8270		
1,2,4-Trichlorobenzene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	1/27/2004 1:37:00 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	1/27/2004 1:37:00 AM
2-Methylnaphthalene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
2-Methylphenol	ND	10		µg/L	1	1/27/2004 1:37:00 AM
2-Nitroaniline	ND	10		µg/L	1	1/27/2004 1:37:00 AM
2-Nitrophenol	ND	10		µg/L	1	1/27/2004 1:37:00 AM
3-Nitroaniline	ND	10		µg/L	1	1/27/2004 1:37:00 AM
4-Methylphenol	ND	10		µg/L	1	1/27/2004 1:37:00 AM
4-Nitroaniline	ND	10		µg/L	1	1/27/2004 1:37:00 AM
4-Nitrophenol	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Acenaphthene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Acenaphthylene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Aniline	ND	10		µg/L	1	1/27/2004 1:37:00 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analytic detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.**Date:** January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-09

Client Sample ID: NCL-34
Collection Date: 1/12/2004 3:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Anthracene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Benz(a)anthracene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Benzidine	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Hexachloroethane	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Isophorone	ND	10		µg/L	1	1/27/2004 1:37:00 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	1/27/2004 1:37:00 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	1/27/2004 1:37:00 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Naphthalene	18	10		µg/L	1	1/27/2004 1:37:00 AM
Nitrobenzene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Pentachlorophenol	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Phenantrhene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Phenol	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Pyrene	ND	10		µg/L	1	1/27/2004 1:37:00 AM
Surr: 2,4,6-Tribromophenol	108	39-153		%REC	1	1/27/2004 1:37:00 AM
Surr: 2-Fluorobiphenyl	70.9	40-147		%REC	1	1/27/2004 1:37:00 AM
Surr: 2-Fluorophenol	37.4	21-100		%REC	1	1/27/2004 1:37:00 AM
Surr: 4-Terphenyl-d14	82.8	39-141		%REC	1	1/27/2004 1:37:00 AM
Surr: Nitrobenzene-d5	93.4	37-140		%REC	1	1/27/2004 1:37:00 AM
Surr: Phenol-d6	23.8	11-100		%REC	1	1/27/2004 1:37:00 AM
VOLATILES BY GC/MS						
				SW8260		Analyst: PC
1,1,1-Trichloroethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
1,1,2-Trichloroethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
1,1-Dichloroethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
1,1-Dichloroethene	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
1,2-Dichloroethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
2-Butanone	ND	10		µg/L	1	1/14/2004 3:26:00 PM
2-Chloroethyl vinyl ether	ND	10		µg/L	1	1/14/2004 3:26:00 PM
2-Hexanone	ND	10		µg/L	1	1/14/2004 3:26:00 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	1/14/2004 3:26:00 PM
Acetone	ND	10		µg/L	1	1/14/2004 3:26:00 PM
Benzene	4,200	250		µg/L	50	1/14/2004 9:48:00 PM
Bromodichloromethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Bromoform	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Bromomethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Carbon disulfide	ND	10		µg/L	1	1/14/2004 3:26:00 PM
Carbon tetrachloride	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Chlorobenzene	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-09

Client Sample ID: NCL-34
Collection Date: 1/12/2004 3:30:00 PM

Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
Chloroethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Chloroform	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Chloromethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
cis-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Dibromochloromethane	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Ethylbenzene	280	25		µg/L	5	1/14/2004 9:21:00 PM
m,p-Xylene	240	10		µg/L	1	1/14/2004 3:26:00 PM
Methylene chloride	ND	10		µg/L	1	1/14/2004 3:26:00 PM
Styrene	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Tetrachloroethene	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Toluene	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
trans-1,3-Dichloropropene	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Trichloroethene	ND	5.0		µg/L	1	1/14/2004 3:26:00 PM
Vinyl acetate	ND	10		µg/L	1	1/14/2004 3:26:00 PM
Vinyl chloride	ND	2.0		µg/L	1	1/14/2004 3:26:00 PM
Xylenes, Total	240	15		µg/L	1	1/14/2004 3:26:00 PM
Surr: 1,2-Dichloroethane-d4	90.4	70-130	%REC		1	1/14/2004 3:26:00 PM
Surr: 1,2-Dichloroethane-d4	89.8	70-130	%REC		5	1/14/2004 9:21:00 PM
Surr: 1,2-Dichloroethane-d4	89.0	70-130	%REC		50	1/14/2004 9:48:00 PM
Surr: 4-Bromofluorobenzene	98.4	70-130	%REC		1	1/14/2004 3:26:00 PM
Surr: 4-Bromofluorobenzene	93.0	70-130	%REC		5	1/14/2004 9:21:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%REC		50	1/14/2004 9:48:00 PM
Surr: Dibromofluoromethane	89.9	70-130	%REC		1	1/14/2004 3:26:00 PM
Surr: Dibromofluoromethane	91.2	70-130	%REC		5	1/14/2004 9:21:00 PM
Surr: Dibromofluoromethane	91.1	70-130	%REC		50	1/14/2004 9:48:00 PM
Surr: Toluene-d8	91.6	70-130	%REC		1	1/14/2004 3:26:00 PM
Surr: Toluene-d8	95.4	70-130	%REC		5	1/14/2004 9:21:00 PM
Surr: Toluene-d8	96.5	70-130	%REC		50	1/14/2004 9:48:00 PM
ANIONS BY ION CHROMATOGRAPHY						
			E300			Analyst: MG
Chloride	369	5.00		mg/L	10	1/22/2004 10:56:00 AM
Fluoride	1.32	0.100		mg/L	1	1/13/2004 11:25:00 PM
Sulfate	178	10.0		mg/L	10	1/22/2004 10:56:00 AM
Nitrate/Nitrite (as N)	ND	0.100		mg/L	1	1/13/2004 11:25:00 PM
Surr: Dichloroacetic acid (surr)	114	80-120	%REC		1	1/13/2004 11:25:00 PM
Surr: Dichloroacetic acid (surr)	99.4	80-120	%REC		10	1/22/2004 10:56:00 AM
ALKALINITY						
			E310.1			Analyst: LMD
Alkalinity, Bicarbonate (As CaCO ₃)	618	5.00		mg/L	1	1/14/2004
Alkalinity, Carbonate (As CaCO ₃)	ND	5.00		mg/L	1	1/14/2004
Alkalinity, Hydroxide (As CaCO ₃)	ND	5.00		mg/L	1	1/14/2004
Alkalinity, Total (As CaCO ₃)	618	5.00		mg/L	1	1/14/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: January 28, 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL
Lab ID: 0401088-09

Client Sample ID: NCL-34
Collection Date: 1/12/2004 3:30:00 PM
Matrix: WATER

Analyses	Result	Report Limit	Qual	Units	Dilution Factor	Date Analyzed
CYANIDE, TOTAL Cyanide	ND	0.0200	E335.3	mg/L	1	Analyst: LMD 1/16/2004

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

e-Lab, Inc.

Date: Jan 28 2004

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7710 InstrumentID: Mercury

MBLK Sample ID: GBLKW5-011304 Test Code: SW7470 Units: mg/L Analysis Date: 01/14/04 16:33

Client ID: Run ID: MERCURY_040114D SeqNo: 416950 Prep Date: 1/13/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020								

LCS Sample ID: GLCSW5-011304 Test Code: SW7470 Units: mg/L Analysis Date: 01/14/04 16:34

Client ID: Run ID: MERCURY_040114D SeqNo: 416951 Prep Date: 1/13/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00487	0.00020	0.005	0	97.4	83-115	0			

LCSD Sample ID: GLCSDW5-011304 Test Code: SW7470 Units: mg/L Analysis Date: 01/14/04 16:36

Client ID: Run ID: MERCURY_040114D SeqNo: 416952 Prep Date: 1/13/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00496	0.00020	0.005	0	99.2	83-115	0.00487	1.83	20	

MS Sample ID: 0401037-01CMS Test Code: SW7470 Units: mg/L Analysis Date: 01/14/04 16:41

Client ID: Run ID: MERCURY_040114D SeqNo: 416955 Prep Date: 1/13/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00507	0.00020	0.005	0.000045	100	70-124	0			

MSD Sample ID: 0401037-01CMSD Test Code: SW7470 Units: mg/L Analysis Date: 01/14/04 16:42

Client ID: Run ID: MERCURY_040114D SeqNo: 416956 Prep Date: 1/13/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00495	0.00020	0.005	0.000045	98.1	70-124	0.00507	2.4	20	

DUP Sample ID: 0401037-01CDUP Test Code: SW7470 Units: mg/L Analysis Date: 01/14/04 16:39

Client ID: Run ID: MERCURY_040114D SeqNo: 416954 Prep Date: 1/13/2004 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.00020	0	0	0	0-0	0.000045	0	20	

The following samples were analyzed in this batch:

0401088-01C	0401088-02C	0401088-03C
0401088-04C	0401088-05C	0401088-06C
0401088-07C	0401088-08C	0401088-09C

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7756 InstrumentID: ICP4500

MBLK Sample ID: MBLKW3-011904		Test Code: SW6020		Units: mg/L		Analysis Date: 01/21/04 23:14		
Client ID:		Run ID: ICP4500_040121A		SeqNo:	419658	Prep Date:	1/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Aluminum	ND	0.010						
Arsenic	ND	0.0050						
Barium	ND	0.0050						
Cadmium	ND	0.0010						
Calcium	ND	0.50						
Chromium	ND	0.0020						
Cobalt	ND	0.0020						
Copper	0.0003929	0.0020						J
Iron	ND	0.20						
Lead	ND	0.0050						
Magnesium	ND	0.20						
Manganese	ND	0.0050						
Nickel	ND	0.0050						
Potassium	ND	0.20						
Selenium	ND	0.0050						
Silver	ND	0.0050						
Sodium	ND	0.20						
Vanadium	ND	0.0050						
Zinc	ND	0.0050						

MBLK Sample ID: MBLKW3-011904		Test Code: SW6020		Units: mg/L		Analysis Date: 01/22/04 21:35		
Client ID:		Run ID: ICP4500_040122A		SeqNo:	420025	Prep Date:	1/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Beryllium	ND	0.0020						
Boron	ND	0.020						

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7756 InstrumentID: ICP4500

LCS	Sample ID: MLCSW3-011904	Test Code: SW6020		Units: mg/L		Analysis Date: 01/21/04 23:45		
Client ID:		Run ID:	ICP4500_040121A	SeqNo:	419664	Prep Date:	1/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Aluminum	0.05287	0.010	0.05	0	106	80-120	0	
Arsenic	0.05067	0.0050	0.05	0	101	80-120	0	
Barium	0.04808	0.0050	0.05	0	96.2	80-120	0	
Cadmium	0.04981	0.0010	0.05	0	99.6	80-120	0	
Calcium	5.269	0.50	5	0	105	80-120	0	
Chromium	0.05048	0.0020	0.05	0	101	80-120	0	
Cobalt	0.0508	0.0020	0.05	0	102	80-120	0	
Copper	0.04905	0.0020	0.05	0	98.1	80-120	0	
Iron	5.354	0.20	5	0	107	80-120	0	
Lead	0.0481	0.0050	0.05	0	96.2	80-120	0	
Magnesium	5.454	0.20	5	0	109	80-120	0	
Manganese	0.05029	0.0050	0.05	0	101	80-120	0	
Nickel	0.05197	0.0050	0.05	0	104	80-120	0	
Potassium	5.369	0.20	5	0	107	80-120	0	
Selenium	0.04698	0.0050	0.05	0	94	80-120	0	
Silver	0.0494	0.0050	0.05	0	98.8	80-120	0	
Sodium	5.317	0.20	5	0	106	80-120	0	
Vanadium	0.04967	0.0050	0.05	0	99.3	80-120	0	
Zinc	0.05036	0.0050	0.05	0	101	80-120	0	

LCS	Sample ID: MLCSW3-011904	Test Code: SW6020		Units: mg/L		Analysis Date: 01/22/04 21:40		
Client ID:		Run ID:	ICP4500_040122A	SeqNo:	420026	Prep Date:	1/19/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit Qual
Beryllium	0.04555	0.0020	0.05	0	91.1	80-120	0	
Boron	0.5045	0.020	0.5	0	101	80-120	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7756 InstrumentID: ICP4500

MS	Sample ID: 0401092-10BMS		Test Code: SW6020		Units: mg/L		Analysis Date: 01/22/04 2:13			
Client ID:	Run ID: ICP4500_040121A		SeqNo: 419690		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	7.945	0.010	0.05	5.457	4980	75-125	0	0	SEO	
Arsenic	0.1244	0.0050	0.05	0.07855	91.7	75-125	0	0	O	
Barium	0.342	0.0050	0.05	0.2921	99.8	75-125	0	0	SEO	
Cadmium	0.0438	0.0010	0.05	0.0001638	87.3	75-125	0	0	SEO	
Calcium	107.6	0.50	5	106.7	18	75-125	0	0	SEO	
Chromium	0.06582	0.0020	0.05	0.01557	100	75-125	0	0	O	
Cobalt	0.1054	0.0020	0.05	0.05934	92.1	75-125	0	0	SEO	
Copper	0.06031	0.0020	0.05	0.01649	87.6	75-125	0	0	SEO	
Iron	23.08	0.20	5	17.25	117	75-125	0	0	O	
Lead	0.07105	0.0050	0.05	0.02069	101	75-125	0	0	SEO	
Magnesium	53.87	0.20	5	51.82	41	75-125	0	0	SEO	
Manganese	4.487	0.0050	0.05	4.586	-198	75-125	0	0	SEO	
Nickel	0.07367	0.0050	0.05	0.02927	88.8	75-125	0	0	O	
Potassium	8.656	0.20	5	3.468	104	75-125	0	0	SEO	
Selenium	0.05191	0.0050	0.05	0.008553	86.7	75-125	0	0	O	
Silver	0.044	0.0050	0.05	0.000006642	88	75-125	0	0	SEO	
Sodium	20	0.20	5	0	400	75-125	0	0	S	
Vanadium	0.07031	0.0050	0.05	0.01866	103	75-125	0	0	O	
Zinc	0.1012	0.0050	0.05	0.05987	82.7	75-125	0	0	O	

MS	Sample ID: 0401092-10BMS		Test Code: SW6020		Units: mg/L		Analysis Date: 01/22/04 23:29			
Client ID:	Run ID: ICP4500_040122A		SeqNo: 420050		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.5113	0.020	0.5	0.03648	95	75-125	0	0	SEO	O

MS	Sample ID: 0401092-10BMS		Test Code: SW6020		Units: mg/L		Analysis Date: 01/23/04 14:09			
Client ID:	Run ID: ICP4500_040123A		SeqNo: 420091		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05216	0.0020	0.05	0.006872	90.6	75-125	0	0	SEO	O

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7756 InstrumentID: ICP4500

MSD	Sample ID: 0401092-10BMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 01/22/04 2:17			
Client ID:	Run ID: ICP4500_040121A		SeqNo: 419691		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	9.166	0.010	0.05	5.457	7420	75-125	7.945	14.3	25	SEO
Arsenic	0.1242	0.0050	0.05	0.07855	91.3	75-125	0.1244	0.161	25	
Barium	0.3439	0.0050	0.05	0.2921	104	75-125	0.342	0.554	25	O
Cadmium	0.04449	0.0010	0.05	0.0001638	88.7	75-125	0.0438	1.56	25	
Calcium	105.2	0.50	5	106.7	-30	75-125	107.6	2.26	25	SEO
Chromium	0.06529	0.0020	0.05	0.01557	99.4	75-125	0.06582	0.808	25	
Cobalt	0.1047	0.0020	0.05	0.05934	90.7	75-125	0.1054	0.666	25	
Copper	0.0599	0.0020	0.05	0.01649	86.8	75-125	0.06031	0.682	25	
Iron	23.55	0.20	5	17.25	126	75-125	23.08	2.02	25	S
Lead	0.07141	0.0050	0.05	0.02069	101	75-125	0.07105	0.505	25	
Magnesium	53.31	0.20	5	51.82	29.8	75-125	53.87	1.04	25	SEO
Manganese	4.466	0.0050	0.05	4.586	-240	75-125	4.487	0.469	25	SEO
Nickel	0.07446	0.0050	0.05	0.02927	90.4	75-125	0.07367	1.07	25	
Potassium	8.617	0.20	5	3.468	103	75-125	8.656	0.452	25	
Selenium	0.04973	0.0050	0.05	0.008553	82.4	75-125	0.05191	4.29	25	
Silver	0.04354	0.0050	0.05	0.000006642	87.1	75-125	0.044	1.05	25	
Sodium	20	0.20	5	0	400	75-125	20	0	25	S
Vanadium	0.07042	0.0050	0.05	0.01866	104	75-125	0.07031	0.156	25	
Zinc	0.1013	0.0050	0.05	0.05987	82.9	75-125	0.1012	0.0988	25	

MSD	Sample ID: 0401092-10BMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 01/22/04 23:34			
Client ID:	Run ID: ICP4500_040122A		SeqNo: 420051		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.5084	0.020	0.5	0.03648	94.4	75-125	0.5113	0.569	25	

MSD	Sample ID: 0401092-10BMSD		Test Code: SW6020		Units: mg/L		Analysis Date: 01/23/04 14:14			
Client ID:	Run ID: ICP4500_040123A		SeqNo: 420092		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.05244	0.0020	0.05	0.006872	91.1	75-125	0.05216	0.535	25	

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B - Analytic detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7756 InstrumentID: ICP4500

DUP	Sample ID: 0401092-10BDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 01/22/04 2:08			
Client ID:	Run ID: ICP4500_040121A		SeqNo: 419689		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.0758	0.0050	0	0	0	0-0	0.07855	3.56	25	
Barium	0.2881	0.0050	0	0	0	0-0	0.2921	1.38	25	
Cadmium	0.0001789	0.0010	0	0	0	0-0	0.0001638	0	25	J
Chromium	0.01639	0.0020	0	0	0	0-0	0.01557	5.13	25	
Cobalt	0.05802	0.0020	0	0	0	0-0	0.05934	2.25	25	
Copper	0.01673	0.0020	0	0	0	0-0	0.01649	1.44	25	
Iron	17.56	0.20	0	0	0	0-0	17.25	1.78	25	
Lead	0.02057	0.0050	0	0	0	0-0	0.02069	0.582	25	
Nickel	0.02877	0.0050	0	0	0	0-0	0.02927	1.72	25	
Potassium	3.544	0.20	0	0	0	0-0	3.468	2.17	25	
Selenium	0.002879	0.0050	0	0	0	0-0	0.008553	0	25	J
Silver	ND	0.0050	0	0	0	0-0	0.000006642	0	25	
Vanadium	0.01941	0.0050	0	0	0	0-0	0.01866	3.94	25	
Zinc	0.05854	0.0050	0	0	0	0-0	0.05987	2.25	25	

DUP	Sample ID: 0401092-10BDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 01/22/04 23:25			
Client ID:	Run ID: ICP4500_040122A		SeqNo: 420049		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Boron	0.02975	0.020	0	0	0	0-0	0.03648	20.3	25	

DUP	Sample ID: 0401092-10BDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 01/23/04 14:04			
Client ID:	Run ID: ICP4500_040123A		SeqNo: 420090		Prep Date: 1/19/2004		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Beryllium	0.007307	0.0020	0	0	0	0-0	0.006872	6.14	25	

DUP	Sample ID: 0401092-10BDUP		Test Code: SW6020		Units: mg/L		Analysis Date: 01/26/04 14:03			
Client ID:	Run ID: ICP4500_040129A		SeqNo: 420732		Prep Date: 1/19/2004		DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	4.829	0.50	0	0	0	0-0	5.425	11.6	25	
Manganese	3.463	0.25	0	0	0	0-0	4.272	20.9	25	
Sodium	244.8	10	0	0	0	0-0	0	200	25	R

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R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7756 InstrumentID: ICP4500

DUP	Sample ID: 0401092-10BDUP	Test Code: SW6020		Units: mg/L		Analysis Date: 01/26/04 14:11			
Client ID:	Run ID: ICP4500_040129A	SeqNo:	420734	Prep Date: 1/19/2004	DF: 10				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
Calcium	103	5.0	0	0	0	0-0	100.1	2.86	25
Magnesium	51.78	2.0	0	0	0	0-0	47.33	8.98	25

The following samples were analyzed in this batch:

0401088-01C	0401088-02C	0401088-03C
0401088-04C	0401088-05C	0401088-06C
0401088-07C	0401088-08C	0401088-09C

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7723 InstrumentID: SV-2

MBLK	Sample ID: SBLKW1-040114	Test Code: SW8270		Units: µg/L		Analysis Date: 01/20/04 16:40		
Client ID:		Run ID:	SV-2_040114D	SeqNo:	418921	Prep Date:	1/14/2004	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	ND	10						
2,4,5-Trichlorophenol	ND	10						
2,4,6-Trichlorophenol	ND	10						
2-Methylnaphthalene	ND	10						
2-Methylphenol	ND	10						
2-Nitroaniline	ND	10						
2-Nitrophenol	ND	10						
3-Nitroaniline	ND	10						
4-Methylphenol	ND	10						
4-Nitroaniline	ND	10						
4-Nitrophenol	ND	10						
Acenaphthene	ND	10						
Acenaphthylene	ND	10						
Aniline	ND	10						
Anthracene	ND	10						
Benz(a)anthracene	ND	10						
Benzidine	ND	10						
Hexachloroethane	ND	10						
Indeno(1,2,3-cd)pyrene	ND	10						
Isophorone	ND	10						
N-Nitrosodi-n-propylamine	ND	10						
N-Nitrosodimethylamine	ND	10						
N-Nitrosodiphenylamine	ND	10						
Naphthalene	ND	10						
Nitrobenzene	ND	10						
Pentachlorophenol	ND	10						
Phenanthrene	ND	10						
Phenol	ND	10						
Pyrene	ND	10						
1,4-Dichlorobenzene-d4	40	0						
Acenaphthene-d10	40	0						
Chrysene-d12	40	0						
Naphthalene-d8	40	0						
Perylene-d12	40	0						
Phenanthrene-d10	40	0						
Surr: 2,4,6-Tribromophenol	105.3	0	100	0	105	39-153	0	
Surr: 2-Fluorobiphenyl	96.07	0	100	0	96.1	40-147	0	
Surr: 2-Fluorophenol	62.28	0	100	0	62.3	21-100	0	
Surr: 4-Terphenyl-d14	99.52	0	100	0	99.5	39-141	0	
Surr: Nitrobenzene-d5	97.08	0	100	0	97.1	37-140	0	
Surr: Phenol-d6	40.29	0	100	0	40.3	11-100	0	

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7723 InstrumentID: **SV-2**

LCS	Sample ID: SLCSW1-040114	Test Code: SW8270		Units: µg/L		Analysis Date: 01/20/04 17:07			
Client ID:	Run ID: SV-2_040114D	SeqNo:	418922	Prep Date: 1/14/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,2,4-Trichlorobenzene	46.88	10	50	0	93.8	50-115	0	0	
2,4,5-Trichlorophenol	103.1	10	100	0	103	72-118	0	0	
2,4,6-Trichlorophenol	102.5	10	100	0	103	72-117	0	0	
2-Methylnaphthalene	45.86	10	50	0	91.7	47-122	0	0	
2-Methylphenol	89.88	10	100	0	89.9	51-115	0	0	
2-Nitroaniline	53.28	10	50	0	107	73-119	0	0	
2-Nitrophenol	100.4	10	100	0	100	60-119	0	0	
3-Nitroaniline	42.65	10	50	0	85.3	61-118	0	0	
4-Methylphenol	127.2	10	150	0	84.8	44-115	0	0	
4-Nitroaniline	46.05	10	50	0	92.1	61-123	0	0	
4-Nitrophenol	60.51	10	100	0	60.5	17-100	0	0	
Acenaphthene	47.27	10	50	0	94.5	68-115	0	0	
Acenaphthylene	47.27	10	50	0	94.5	67-116	0	0	
Aniline	35.9	10	50	0	71.8	40-130	0	0	
Anthracene	54.02	10	50	0	108	72-124	0	0	
Benz(a)anthracene	47.09	10	50	0	94.2	55-131	0	0	
Benzidine	20.56	10	50	0	41.1	10-115	0	0	
Hexachloroethane	47.81	10	50	0	95.6	46-115	0	0	
Indeno(1,2,3-cd)pyrene	41.48	10	50	0	83	42-123	0	0	
Isophorone	51.35	10	50	0	103	63-117	0	0	
N-Nitrosodi-n-propylamine	48.47	10	50	0	96.9	67-115	0	0	
N-Nitrosodimethylamine	35.21	10	50	0	70.4	28-115	0	0	
N-Nitrosodiphenylamine	58.94	10	50	0	118	72-144	0	0	
Naphthalene	45.32	10	50	0	90.6	52-115	0	0	
Nitrobenzene	49.29	10	50	0	98.6	65-115	0	0	
Pentachlorophenol	108.8	10	100	0	109	65-123	0	0	
Phenanthrene	51.34	10	50	0	103	69-119	0	0	
Phenol	51.33	10	100	0	51.3	16-115	0	0	
Pyrene	44.55	10	50	0	89.1	51-130	0	0	
Surr: 2,4,6-Tribromophenol	111.9	0	100	0	112	39-153	0	0	
Surr: 2-Fluorobiphenyl	95.45	0	100	0	95.5	40-147	0	0	
Surr: 2-Fluorophenol	70.5	0	100	0	70.5	21-100	0	0	
Surr: 4-Terphenyl-d14	97.53	0	100	0	97.5	39-141	0	0	
Surr: Nitrobenzene-d5	98.89	0	100	0	98.9	37-140	0	0	
Surr: Phenol-d6	48.37	0	100	0	48.4	11-100	0	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7723 InstrumentID: **SV-2**

MS	Sample ID: 0401093-04EMS	Test Code: SW8270		Units: µg/L		Analysis Date: 01/20/04 18:02		
Client ID:	Run ID: SV-2_040114D	SeqNo:	418924	Prep Date: 1/14/2004	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,2,4-Trichlorobenzene	43.05	10	50	0	86.1	45-115	0	0
2,4,5-Trichlorophenol	102.3	10	100	0	102	47-129	0	0
2,4,6-Trichlorophenol	102.6	10	100	0	103	45-127	0	0
2-Methylnaphthalene	44.59	10	50	0	89.2	30-144	0	0
2-Methylphenol	73.53	10	100	0	73.5	42-115	0	0
2-Nitroaniline	52.24	10	50	0	104	48-129	0	0
2-Nitrophenol	99.31	10	100	0	99.3	32-144	0	0
3-Nitroaniline	41.25	10	50	0	82.5	23-122	0	0
4-Methylphenol	88.9	10	150	0	59.3	35-115	0	0
4-Nitroaniline	44.95	10	50	0	89.9	12-138	0	0
4-Nitrophenol	48.62	10	100	0	48.6	10-80	0	0
Acenaphthene	45.86	10	50	0	91.7	55-117	0	0
Acenaphthylene	46.09	10	50	0	92.2	39-128	0	0
Aniline	33.92	10	50	0	67.8	40-130	0	0
Anthracene	52.18	10	50	0	104	58-129	0	0
Benz(a)anthracene	45.64	10	50	0	91.3	42-135	0	0
Benzidine	14.64	10	50	0	29.3	10-127	0	0
Hexachloroethane	41.51	10	50	0	83	45-115	0	0
Indeno(1,2,3-cd)pyrene	40.44	10	50	0	80.9	32-132	0	0
Isophorone	50.02	10	50	0	100	51-122	0	0
N-Nitrosodi-n-propylamine	47.83	10	50	0	95.7	55-115	0	0
N-Nitrosodimethylamine	29.58	10	50	0	59.2	30-115	0	0
N-Nitrosodiphenylamine	55.02	10	50	0	110	47-146	0	0
Naphthalene	43.41	10	50	0	86.8	46-116	0	0
Nitrobenzene	47.85	10	50	0	95.7	48-126	0	0
Pentachlorophenol	115.1	10	100	0	115	53-134	0	0
Phenanthrene	48.69	10	50	0	97.4	57-123	0	0
Phenol	39.86	10	100	0	39.9	10-115	0	0
Pyrene	43.3	10	50	0	86.6	40-130	0	0
Surr: 2,4,6-Tribromophenol	108.2	0	100	0	108	39-153	0	0
Surr: 2-Fluorobiphenyl	91.77	0	100	0	91.8	40-147	0	0
Surr: 2-Fluorophenol	53.6	0	100	0	53.6	21-100	0	0
Surr: 4-Terphenyl-d14	95.11	0	100	0	95.1	39-141	0	0
Surr: Nitrobenzene-d5	95.4	0	100	0	95.4	37-140	0	0
Surr: Phenol-d6	39.31	0	100	0	39.3	11-100	0	0

ND - Not Detected at the Reporting Limit

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O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: 7723 InstrumentID: SV-2

MSD	Sample ID: 0401093-04EMSD	Test Code: SW8270		Units: µg/L		Analysis Date: 01/20/04 18:29			
Client ID:		Run ID: SV-2_040114D	SeqNo: 418925	Prep Date: 1/14/2004	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit	Qual
1,2,4-Trichlorobenzene	46.41	10	50	0	92.8	45-115	43.05	7.51	30
2,4,5-Trichlorophenol	108.8	10	100	0	109	47-129	102.3	6.17	30
2,4,6-Trichlorophenol	107	10	100	0	107	45-127	102.6	4.15	30
2-Methylnaphthalene	48.26	10	50	0	96.5	30-144	44.59	7.91	30
2-Methylphenol	78.92	10	100	0	78.9	42-115	73.53	7.06	30
2-Nitroaniline	57.36	10	50	0	115	48-129	52.24	9.33	30
2-Nitrophenol	107.3	10	100	0	107	32-144	99.31	7.7	30
3-Nitroaniline	47.24	10	50	0	94.5	23-122	41.25	13.5	30
4-Methylphenol	94.91	10	150	0	63.3	35-115	88.9	6.54	30
4-Nitroaniline	48.94	10	50	0	97.9	12-138	44.95	8.51	30
4-Nitrophenol	52.95	10	100	0	52.9	10-80	48.62	8.51	30
Acenaphthene	48.98	10	50	0	98	55-117	45.86	6.58	30
Acenaphthylene	49.73	10	50	0	99.5	39-128	46.09	7.6	30
Aniline	39	10	50	0	78	40-130	33.92	13.9	30
Anthracene	55.47	10	50	0	111	58-129	52.18	6.11	30
Benz(a)anthracene	49.16	10	50	0	98.3	42-135	45.64	7.42	30
Benzidine	19.16	10	50	0	38.3	10-127	14.64	26.8	30
Hexachloroethane	43.66	10	50	0	87.3	45-115	41.51	5.05	30
Indeno(1,2,3-cd)pyrene	42.39	10	50	0	84.8	32-132	40.44	4.73	30
Isophorone	55.25	10	50	0	110	51-122	50.02	9.94	30
N-Nitrosodi-n-propylamine	52.39	10	50	0	105	55-115	47.83	9.1	30
N-Nitrosodimethylamine	31.2	10	50	0	62.4	30-115	29.58	5.35	30
N-Nitrosodiphenylamine	59.74	10	50	0	119	47-146	55.02	8.22	30
Naphthalene	46.55	10	50	0	93.1	46-116	43.41	6.99	30
Nitrobenzene	50.72	10	50	0	101	48-126	47.85	5.83	30
Pentachlorophenol	118.8	10	100	0	119	53-134	115.1	3.19	30
Phenanthrone	52.07	10	50	0	104	57-123	48.69	6.7	30
Phenol	42.51	10	100	0	42.5	10-115	39.86	6.45	30
Pyrene	47.31	10	50	0	94.6	40-130	43.3	8.86	30
Surr: 2,4,6-Tribromophenol	121.8	0	100	0	122	39-153	108.2	11.9	30
Surr: 2-Fluorobiphenyl	101.4	0	100	0	101	40-147	91.77	9.92	30
Surr: 2-Fluorophenol	57.46	0	100	0	57.5	21-100	53.6	6.94	30
Surr: 4-Terphenyl-d14	104	0	100	0	104	39-141	95.11	8.91	30
Surr: Nitrobenzene-d5	104.5	0	100	0	105	37-140	95.4	9.11	30
Surr: Phenol-d6	42.55	0	100	0	42.6	11-100	39.31	7.92	30

The following samples were analyzed in this batch:

0401088-01E	0401088-02E	0401088-03E
0401088-04E	0401088-05E	0401088-06E
0401088-07E	0401088-08E	0401088-09E

ND - Not Detected at the Reporting Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18228 InstrumentID: VOA_I

MBLK	Sample ID: VBLKW-0113	Test Code: SW8260		Units: µg/L		Analysis Date: 01/13/04 11:22		
Client ID:		Run ID:	VOA_I_040113A	SeqNo:	416622	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	ND	5.0						
1,1,2,2-Tetrachloroethane	ND	5.0						
1,1,2-Trichloroethane	ND	5.0						
1,1-Dichloroethane	ND	5.0						
1,1-Dichloroethene	ND	5.0						
1,2-Dichloroethane	ND	5.0						
2-Butanone	ND	10						
2-Chloroethyl vinyl ether	ND	10						
2-Hexanone	ND	10						
4-Methyl-2-pentanone	ND	10						
Acetone	ND	10						
Benzene	ND	5.0						
Bromodichloromethane	ND	5.0						
Bromoform	ND	5.0						
Bromomethane	ND	5.0						
Carbon disulfide	ND	10						
Carbon tetrachloride	ND	5.0						
Chlorobenzene	ND	5.0						
Chloroethane	ND	5.0						
Chloroform	ND	5.0						
Chloromethane	ND	5.0						
cis-1,3-Dichloropropene	ND	5.0						
Dibromochloromethane	ND	5.0						
Ethylbenzene	ND	5.0						
m,p-Xylene	ND	10						
Methylene chloride	ND	10						
Styrene	ND	5.0						
Tetrachloroethene	ND	5.0						
Toluene	ND	5.0						
trans-1,3-Dichloropropene	ND	5.0						
Trichloroethene	ND	5.0						
Vinyl acetate	ND	10						
Vinyl chloride	ND	2.0						
Xylenes, Total	ND	15						
Surr: 1,2-Dichloroethane-d4	46	5.0	50	0	92	70-130	0	
Surr: 4-Bromofluorobenzene	48.08	5.0	50	0	96.2	70-130	0	
Surr: Dibromofluoromethane	47.06	5.0	50	0	94.1	70-130	0	
Surr: Toluene-d8	46.05	5.0	50	0	92.1	70-130	0	

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CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18228 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-0113	Test Code: SW8260		Units: µg/L		Analysis Date: 01/13/04 10:28		
Client ID:	Run ID: VOA_I_040113A	SeqNo:	416621	Prep Date:		DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD Limit
1,1,1-Trichloroethane	48.27	5.0	50	0	96.5	75-118	0	
1,1,2,2-Tetrachloroethane	47.46	5.0	50	0	94.9	79-120	0	
1,1,2-Trichloroethane	48.13	5.0	50	0	96.3	81-119	0	
1,1-Dichloroethane	46.83	5.0	50	0	93.7	80-120	0	
1,1-Dichloroethene	46.32	5.0	50	0	92.6	80-120	0	
1,2-Dichloroethane	53.01	5.0	50	0	106	80-120	0	
2-Butanone	98.39	10	100	0	98.4	70-130	0	
2-Chloroethyl vinyl ether	90.24	10	100	0	90.2	72-120	0	
4-Methyl-2-pentanone	93.51	10	100	0	93.5	78-120	0	
Acetone	113.7	10	100	0	114	60-135	0	
Benzene	46.07	5.0	50	0	92.1	82-119	0	
Bromodichloromethane	51.5	5.0	50	0	103	81-119	0	
Bromoform	50.25	5.0	50	0	100	80-120	0	
Bromomethane	44.31	5.0	50	0	88.6	75-130	0	
Carbon disulfide	89.23	10	100	0	89.2	78-120	0	
Carbon tetrachloride	49.21	5.0	50	0	98.4	77-120	0	
Chlorobenzene	47.05	5.0	50	0	94.1	82-118	0	
Chloroethane	46.72	5.0	50	0	93.4	78-122	0	
Chloroform	49.02	5.0	50	0	98	78-120	0	
Chloromethane	58.33	5.0	50	0	117	75-125	0	
cis-1,3-Dichloropropene	50.41	5.0	50	0	101	81-120	0	
Dibromochloromethane	52.1	5.0	50	0	104	81-118	0	
Ethylbenzene	46.77	5.0	50	0	93.5	82-120	0	
m,p-Xylene	90.81	10	100	0	90.8	82-122	0	
Methylene chloride	47.03	10	50	0	94.1	80-122	0	
Styrene	47.64	5.0	50	0	95.3	82-121	0	
Tetrachloroethene	47.51	5.0	50	0	95	79-118	0	
Toluene	45.44	5.0	50	0	90.9	81-119	0	
trans-1,3-Dichloropropene	50.2	5.0	50	0	100	82-121	0	
Trichloroethene	49.17	5.0	50	0	98.3	78-118	0	
Vinyl acetate	98.67	10	100	0	98.7	75-120	0	
Vinyl chloride	45.63	2.0	50	0	91.3	73-127	0	
Xylenes, Total	138.2	15	150	0	92.1	80-120	0	
Surr: 1,2-Dichloroethane-d4	45.82	5.0	50	0	91.6	70-130	0	
Surr: 4-Bromofluorobenzene	48.79	5.0	50	0	97.6	70-130	0	
Surr: Dibromofluoromethane	46.9	5.0	50	0	93.8	70-130	0	
Surr: Toluene-d8	45.11	5.0	50	0	90.2	70-130	0	

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

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O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18228 InstrumentID: VOA_I

MS	Sample ID: 0401069-08AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 01/13/04 13:36		
Client ID:		Run ID: VOA_I_040113A	SeqNo: 416623	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	44.27	5.0	50	0	88.5	75-125	0	
1,1,2,2-Tetrachloroethane	43.73	5.0	50	0	87.5	75-125	0	
1,1,2-Trichloroethane	45.29	5.0	50	0	90.6	75-125	0	
1,1-Dichloroethane	71.66	5.0	50	31.2	80.9	75-125	0	
1,1-Dichloroethene	104.2	5.0	50	72.85	62.8	65-130	0	S
1,2-Dichloroethane	49.86	5.0	50	0	99.7	70-130	0	
2-Butanone	91.73	10	100	0	91.7	64-128	0	
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	S
4-Methyl-2-pentanone	95.27	10	100	0	95.3	75-125	0	
Acetone	100.1	10	100	0	100	60-130	0	
Benzene	44.02	5.0	50	0	88	76-127	0	
Bromodichloromethane	48.53	5.0	50	0	97.1	75-125	0	
Bromoform	47.61	5.0	50	0	95.2	75-125	0	
Bromomethane	40.26	5.0	50	0	80.5	75-125	0	
Carbon disulfide	81.69	10	100	0	81.7	75-125	0	
Carbon tetrachloride	44.78	5.0	50	0	89.6	70-130	0	
Chlorobenzene	44.91	5.0	50	0	89.8	75-126	0	
Chloroethane	41.03	5.0	50	0	82.1	70-130	0	
Chloroform	47.25	5.0	50	0	94.5	75-125	0	
Chloromethane	53.47	5.0	50	0	107	75-125	0	
cis-1,3-Dichloropropene	47.2	5.0	50	0	94.4	75-125	0	
Dibromochloromethane	49.07	5.0	50	0	98.1	75-125	0	
Ethylbenzene	43.36	5.0	50	0	86.7	75-125	0	
m,p-Xylene	85.04	10	100	0	85	75-125	0	
Methylene chloride	45.19	10	50	0	90.4	75-125	0	
Styrene	40.66	5.0	50	0	81.3	75-125	0	
Tetrachloroethene	43.81	5.0	50	0	87.6	75-125	0	
Toluene	42.83	5.0	50	0	85.7	76-125	0	
trans-1,3-Dichloropropene	48.07	5.0	50	0	96.1	70-130	0	
Trichloroethene	47.03	5.0	50	0	94.1	71-120	0	
Vinyl acetate	88.29	10	100	0	88.3	75-125	0	
Vinyl chloride	39.74	2.0	50	0	79.5	60-135	0	
Xylenes, Total	129	15	150	0	86	75-125	0	
Surr: 1,2-Dichloroethane-d4	46.19	5.0	50	0	92.4	70-130	0	
Surr: 4-Bromofluorobenzene	49.78	5.0	50	0	99.6	70-130	0	
Surr: Dibromofluoromethane	47.52	5.0	50	0	95	70-130	0	
Surr: Toluene-d8	45.36	5.0	50	0	90.7	70-130	0	

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18228 InstrumentID: VOA_I

MSD	Sample ID: 0401069-08AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 01/13/04 14:03				
Client ID:	Run ID: VOA_I_040113A	SeqNo:	416624	Prep Date:		DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	51.32	5.0	50	0	103	75-125	44.27	14.8	20	
1,1,2,2-Tetrachloroethane	47.81	5.0	50	0	95.6	75-125	43.73	8.9	20	
1,1,2-Trichloroethane	49.39	5.0	50	0	98.8	75-125	45.29	8.66	20	
1,1-Dichloroethane	77.65	5.0	50	31.2	92.9	75-125	71.66	8.03	20	
1,1-Dichloroethene	115.3	5.0	50	72.85	84.9	65-130	104.2	10.1	20	
1,2-Dichloroethane	53.62	5.0	50	0	107	70-130	49.86	7.27	20	
2-Butanone	103.2	10	100	0	103	64-128	91.73	11.8	20	
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	0	20	S
4-Methyl-2-pentanone	100.9	10	100	0	101	75-125	95.27	5.77	20	
Acetone	107.4	10	100	0	107	60-130	100.1	7.09	20	
Benzene	49.06	5.0	50	0	98.1	76-127	44.02	10.8	20	
Bromodichloromethane	53.21	5.0	50	0	106	75-125	48.53	9.21	20	
Bromoform	51.56	5.0	50	0	103	75-125	47.61	7.95	20	
Bromomethane	49.35	5.0	50	0	98.7	75-125	40.26	20.3	20	R
Carbon disulfide	96.66	10	100	0	96.7	75-125	81.69	16.8	20	
Carbon tetrachloride	52.5	5.0	50	0	105	70-130	44.78	15.9	20	
Chlorobenzene	49.89	5.0	50	0	99.8	75-126	44.91	10.5	20	
Chloroethane	49.74	5.0	50	0	99.5	70-130	41.03	19.2	20	
Chloroform	51.66	5.0	50	0	103	75-125	47.25	8.93	20	
Chloromethane	59.73	5.0	50	0	119	75-125	53.47	11.1	20	
cis-1,3-Dichloropropene	52.48	5.0	50	0	105	75-125	47.2	10.6	20	
Dibromochloromethane	52.99	5.0	50	0	106	75-125	49.07	7.7	20	
Ethylbenzene	49.24	5.0	50	0	98.5	75-125	43.36	12.7	20	
m,p-Xylene	97.66	10	100	0	97.7	75-125	85.04	13.8	20	
Methylene chloride	49.52	10	50	0	99	75-125	45.19	9.15	20	
Styrene	44.29	5.0	50	0	88.6	75-125	40.66	8.54	20	
Tetrachloroethene	51.19	5.0	50	0	102	75-125	43.81	15.5	20	
Toluene	47.76	5.0	50	0	95.5	76-125	42.83	10.9	20	
trans-1,3-Dichloropropene	52.51	5.0	50	0	105	70-130	48.07	8.81	20	
Trichloroethene	52.68	5.0	50	0	105	71-120	47.03	11.3	20	
Vinyl acetate	92.99	10	100	0	93	75-125	88.29	5.19	20	
Vinyl chloride	47.65	2.0	50	0	95.3	60-135	39.74	18.1	20	
Xylenes, Total	146.6	15	150	0	97.8	75-125	129	12.8	20	
Surr: 1,2-Dichloroethane-d4	46.39	5.0	50	0	92.8	70-130	46.19	0.429	20	
Surr: 4-Bromofluorobenzene	49.42	5.0	50	0	98.8	70-130	49.78	0.719	20	
Surr: Dibromofluoromethane	47.17	5.0	50	0	94.3	70-130	47.52	0.757	20	
Surr: Toluene-d8	45.25	5.0	50	0	90.5	70-130	45.36	0.243	20	

The following samples were analyzed in this batch:

0401088-01A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18234 InstrumentID: VOA_I

MBLK	Sample ID: VBLKW-0113	Test Code: SW8260		Units: µg/L		Analysis Date: 01/14/04 0:49			
Client ID:	Run ID: VOA_I_040113D	SeqNo:	416728	Prep Date:	DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0							
1,1,2,2-Tetrachloroethane	ND	5.0							
1,1,2-Trichloroethane	ND	5.0							
1,1-Dichloroethane	ND	5.0							
1,1-Dichloroethene	ND	5.0							
1,2-Dichloroethane	ND	5.0							
2-Butanone	ND	10							
2-Chloroethyl vinyl ether	ND	10							
2-Hexanone	ND	10							
4-Methyl-2-pentanone	ND	10							
Acetone	ND	10							
Benzene	ND	5.0							
Bromodichloromethane	ND	5.0							
Bromoform	ND	5.0							
Bromomethane	ND	5.0							
Carbon disulfide	ND	10							
Carbon tetrachloride	ND	5.0							
Chlorobenzene	ND	5.0							
Chloroethane	ND	5.0							
Chloroform	ND	5.0							
Chloromethane	ND	5.0							
cis-1,3-Dichloropropene	ND	5.0							
Dibromochloromethane	ND	5.0							
Ethylbenzene	ND	5.0							
m,p-Xylene	ND	10							
Methylene chloride	ND	10							
Styrene	ND	5.0							
Tetrachloroethene	ND	5.0							
Toluene	ND	5.0							
trans-1,3-Dichloropropene	ND	5.0							
Trichloroethene	ND	5.0							
Vinyl acetate	ND	10							
Vinyl chloride	ND	2.0							
Xylenes, Total	ND	15							
Surr: 1,2-Dichloroethane-d4	46.63	5.0	50	0	93.3	70-130	0		
Surr: 4-Bromofluorobenzene	47.2	5.0	50	0	94.4	70-130	0		
Surr: Dibromofluoromethane	46.63	5.0	50	0	93.3	70-130	0		
Surr: Toluene-d8	44.49	5.0	50	0	89	70-130	0		

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18234 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-0113	Test Code: SW8260		Units: µg/L		Analysis Date: 01/13/04 23:28		
Client ID:	Run ID: VOA_I_040113D	SeqNo:	416726	Prep Date:	DF:	1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	49.1	5.0	50	0	98.2	75-118	0	
1,1,2,2-Tetrachloroethane	43.9	5.0	50	0	87.8	79-120	0	
1,1,2-Trichloroethane	46.48	5.0	50	0	93	81-119	0	
1,1-Dichloroethane	46.91	5.0	50	0	93.8	80-120	0	
1,1-Dichloroethene	47.47	5.0	50	0	94.9	80-120	0	
1,2-Dichloroethane	52.16	5.0	50	0	104	80-120	0	
2-Butanone	106.2	10	100	0	106	70-130	0	
2-Chloroethyl vinyl ether	88.05	10	100	0	88	72-120	0	
4-Methyl-2-pentanone	90.69	10	100	0	90.7	78-120	0	
Acetone	127.5	10	100	0	127	60-135	0	
Benzene	46.08	5.0	50	0	92.2	82-119	0	
Bromodichloromethane	51.37	5.0	50	0	103	81-119	0	
Bromoform	49.59	5.0	50	0	99.2	80-120	0	
Bromomethane	50.91	5.0	50	0	102	75-130	0	
Carbon disulfide	91.87	10	100	0	91.9	78-120	0	
Carbon tetrachloride	50.02	5.0	50	0	100	77-120	0	
Chlorobenzene	45.71	5.0	50	0	91.4	82-118	0	
Chloroethane	46.65	5.0	50	0	93.3	78-122	0	
Chloroform	49.54	5.0	50	0	99.1	78-120	0	
Chloromethane	55.82	5.0	50	0	112	75-125	0	
cis-1,3-Dichloropropene	49.46	5.0	50	0	98.9	81-120	0	
Dibromochloromethane	49.82	5.0	50	0	99.6	81-118	0	
Ethylbenzene	45.02	5.0	50	0	90	82-120	0	
m,p-Xylene	88.96	10	100	0	89	82-122	0	
Methylene chloride	46.23	10	50	0	92.5	80-122	0	
Styrene	46.18	5.0	50	0	92.4	82-121	0	
Tetrachloroethene	46.18	5.0	50	0	92.4	79-118	0	
Toluene	44.43	5.0	50	0	88.9	81-119	0	
trans-1,3-Dichloropropene	50.36	5.0	50	0	101	82-121	0	
Trichloroethene	49.32	5.0	50	0	98.6	78-118	0	
Vinyl acetate	90.38	10	100	0	90.4	75-120	0	
Vinyl chloride	44.87	2.0	50	0	89.7	73-127	0	
Xylenes, Total	134.6	15	150	0	89.7	80-120	0	
Surr: 1,2-Dichloroethane-d4	46.35	5.0	50	0	92.7	70-130	0	
Surr: 4-Bromofluorobenzene	47.78	5.0	50	0	95.6	70-130	0	
Surr: Dibromofluoromethane	47.11	5.0	50	0	94.2	70-130	0	
Surr: Toluene-d8	43.62	5.0	50	0	87.2	70-130	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18234 InstrumentID: VOA_I

LCSD	Sample ID: VLCSWD-0113	Test Code: SW8260		Units: µg/L		Analysis Date: 01/13/04 23:55				
Client ID:	Run ID: VOA_I_040113D	SeqNo:	416727	Prep Date:		DF:	1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	49.08	5.0	50	0	98.2	75-118	49.1	0.0365	20	
1,1,2,2-Tetrachloroethane	45.4	5.0	50	0	90.8	79-120	43.9	3.37	20	
1,1,2-Trichloroethane	46.7	5.0	50	0	93.4	81-119	46.48	0.482	20	
1,1-Dichloroethane	46.15	5.0	50	0	92.3	80-120	46.91	1.64	20	
1,1-Dichloroethene	47.26	5.0	50	0	94.5	80-120	47.47	0.446	20	
1,2-Dichloroethane	51.13	5.0	50	0	102	80-120	52.16	2	20	
2-Butanone	109	10	100	0	109	70-130	106.2	2.57	20	
2-Chloroethyl vinyl ether	89.47	10	100	0	89.5	72-120	88.05	1.6	20	
4-Methyl-2-pentanone	94.76	10	100	0	94.8	78-120	90.69	4.39	20	
Acetone	127.7	10	100	0	128	60-135	127.5	0.123	20	
Benzene	45.11	5.0	50	0	90.2	82-119	46.08	2.12	20	
Bromodichloromethane	50.78	5.0	50	0	102	81-119	51.37	1.15	20	
Bromoform	49.12	5.0	50	0	98.2	80-120	49.59	0.951	20	
Bromomethane	51.74	5.0	50	0	103	75-130	50.91	1.61	20	
Carbon disulfide	91.13	10	100	0	91.1	78-120	91.87	0.803	20	
Carbon tetrachloride	49.79	5.0	50	0	99.6	77-120	50.02	0.463	20	
Chlorobenzene	45.71	5.0	50	0	91.4	82-118	45.71	0.0102	20	
Chloroethane	46.84	5.0	50	0	93.7	78-122	46.65	0.416	20	
Chloroform	48.88	5.0	50	0	97.8	78-120	49.54	1.33	20	
Chloromethane	52.47	5.0	50	0	105	75-125	55.82	6.19	20	
cis-1,3-Dichloropropene	49.05	5.0	50	0	98.1	81-120	49.46	0.831	20	
Dibromochloromethane	49.55	5.0	50	0	99.1	81-118	49.82	0.554	20	
Ethylbenzene	45.41	5.0	50	0	90.8	82-120	45.02	0.868	20	
m,p-Xylene	89.6	10	100	0	89.6	82-122	88.96	0.711	20	
Methylene chloride	46.37	10	50	0	92.7	80-122	46.23	0.304	20	
Styrene	45.93	5.0	50	0	91.9	82-121	46.18	0.553	20	
Tetrachloroethene	47.57	5.0	50	0	95.1	79-118	46.18	2.96	20	
Toluene	44.38	5.0	50	0	88.8	81-119	44.43	0.124	20	
trans-1,3-Dichloropropene	48.76	5.0	50	0	97.5	82-121	50.36	3.23	20	
Trichloroethene	48.5	5.0	50	0	97	78-118	49.32	1.69	20	
Vinyl acetate	94.12	10	100	0	94.1	75-120	90.38	4.06	20	
Vinyl chloride	44.6	2.0	50	0	89.2	73-127	44.87	0.617	20	
Xylenes, Total	134.8	15	150	0	89.8	80-120	134.6	0.124	20	
Surr: 1,2-Dichloroethane-d4	46.38	5.0	50	0	92.8	70-130	46.35	0.0566	20	
Surr: 4-Bromofluorobenzene	48.18	5.0	50	0	96.4	70-130	47.78	0.83	20	
Surr: Dibromofluoromethane	47.35	5.0	50	0	94.7	70-130	47.11	0.508	20	
Surr: Toluene-d8	44.82	5.0	50	0	89.6	70-130	43.62	2.71	20	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Reference analyte value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18234 InstrumentID: VOA_I

MS	Sample ID: 0401071-01AMS	Test Code: SW8260			Units: µg/L		Analysis Date: 01/14/04 1:43		
Client ID:		Run ID:	VOA_I_040113D	SeqNo:	416730	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,1,1-Trichloroethane	55.05	5.0	50	0	110	75-125	0	0	
1,1,2,2-Tetrachloroethane	53.45	5.0	50	0	107	75-125	0	0	
1,1,2-Trichloroethane	54.38	5.0	50	0	109	75-125	0	0	
1,1-Dichloroethane	55.02	5.0	50	0	110	75-125	0	0	
1,1-Dichloroethene	53.12	5.0	50	0	106	65-130	0	0	
1,2-Dichloroethane	65.57	5.0	50	5.779	120	70-130	0	0	
2-Butanone	121.5	10	100	0	121	64-128	0	0	
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	0	S
4-Methyl-2-pentanone	114.7	10	100	0	115	75-125	0	0	
Acetone	129.2	10	100	0	129	60-130	0	0	
Benzene	52.81	5.0	50	0	106	76-127	0	0	
Bromodichloromethane	60.4	5.0	50	0	121	75-125	0	0	
Bromoform	57.63	5.0	50	0	115	75-125	0	0	
Bromomethane	56.77	5.0	50	0	114	75-125	0	0	
Carbon disulfide	102	10	100	0	102	75-125	0	0	
Carbon tetrachloride	54.75	5.0	50	0	110	70-130	0	0	
Chlorobenzene	52.57	5.0	50	0	105	75-126	0	0	
Chloroethane	51.01	5.0	50	0	102	70-130	0	0	
Chloroform	58.21	5.0	50	0	116	75-125	0	0	
Chloromethane	60.31	5.0	50	0	121	75-125	0	0	
cis-1,3-Dichloropropene	56.58	5.0	50	0	113	75-125	0	0	
Dibromochloromethane	57.65	5.0	50	0	115	75-125	0	0	
Ethylbenzene	50.61	5.0	50	0	101	75-125	0	0	
m,p-Xylene	99.78	10	100	0	99.8	75-125	0	0	
Methylene chloride	53.64	10	50	0	107	75-125	0	0	
Styrene	47.43	5.0	50	0	94.9	75-125	0	0	
Tetrachloroethene	51.12	5.0	50	0	102	75-125	0	0	
Toluene	49.73	5.0	50	0	99.5	76-125	0	0	
trans-1,3-Dichloropropene	56.88	5.0	50	0	114	70-130	0	0	
Trichloroethene	62.37	5.0	50	8.763	107	71-120	0	0	
Vinyl acetate	103.9	10	100	0	104	75-125	0	0	
Vinyl chloride	48.38	2.0	50	0	96.8	60-135	0	0	
Xylenes, Total	150.6	15	150	0	100	75-125	0	0	
Surr: 1,2-Dichloroethane-d4	47.1	5.0	50	0	94.2	70-130	0	0	
Surr: 4-Bromofluorobenzene	47.78	5.0	50	0	95.6	70-130	0	0	
Surr: Dibromofluoromethane	47.25	5.0	50	0	94.5	70-130	0	0	
Surr: Toluene-d8	44.11	5.0	50	0	88.2	70-130	0	0	

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analytic detected in assoc. Method Blank

J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18234 InstrumentID: VOA_I

MSD	Sample ID: 0401071-01AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 01/14/04 2:10				
Client ID:	Run ID: VOA_I_040113D	SeqNo:	416731	Prep Date:	DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	53.22	5.0	50	0	106	75-125	55.05	3.39	20	
1,1,2,2-Tetrachloroethane	52.99	5.0	50	0	106	75-125	53.45	0.85	20	
1,1,2-Trichloroethane	55.2	5.0	50	0	110	75-125	54.38	1.5	20	
1,1-Dichloroethane	55.38	5.0	50	0	111	75-125	55.02	0.649	20	
1,1-Dichloroethene	49.83	5.0	50	0	99.7	65-130	53.12	6.39	20	
1,2-Dichloroethane	66.49	5.0	50	5.779	121	70-130	65.57	1.4	20	
2-Butanone	118.6	10	100	0	119	64-128	121.5	2.41	20	
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	0	20	S
4-Methyl-2-pentanone	118.5	10	100	0	119	75-125	114.7	3.3	20	
Acetone	127.4	10	100	0	127	60-130	129.2	1.4	20	
Benzene	51.74	5.0	50	0	103	76-127	52.81	2.05	20	
Bromodichloromethane	59.62	5.0	50	0	119	75-125	60.4	1.3	20	
Bromoform	57.53	5.0	50	0	115	75-125	57.63	0.166	20	
Bromomethane	60.43	5.0	50	0	121	75-125	56.77	6.24	20	
Carbon disulfide	97.19	10	100	0	97.2	75-125	102	4.86	20	
Carbon tetrachloride	51.2	5.0	50	0	102	70-130	54.75	6.71	20	
Chlorobenzene	53.2	5.0	50	0	106	75-126	52.57	1.2	20	
Chloroethane	51.82	5.0	50	0	104	70-130	51.01	1.57	20	
Chloroform	58.31	5.0	50	0	117	75-125	58.21	0.161	20	
Chloromethane	60.19	5.0	50	0	120	75-125	60.31	0.206	20	
cis-1,3-Dichloropropene	56.69	5.0	50	0	113	75-125	56.58	0.189	20	
Dibromochloromethane	59.28	5.0	50	0	119	75-125	57.65	2.78	20	
Ethylbenzene	49.97	5.0	50	0	99.9	75-125	50.61	1.27	20	
m,p-Xylene	101.5	10	100	0	101	75-125	99.78	1.67	20	
Methylene chloride	55.45	10	50	0	111	75-125	53.64	3.32	20	
Styrene	48.48	5.0	50	0	97	75-125	47.43	2.18	20	
Tetrachloroethene	50.66	5.0	50	0	101	75-125	51.12	0.895	20	
Toluene	50.35	5.0	50	0	101	76-125	49.73	1.24	20	
trans-1,3-Dichloropropene	57.65	5.0	50	0	115	70-130	56.88	1.34	20	
Trichloroethene	61.23	5.0	50	8.763	105	71-120	62.37	1.85	20	
Vinyl acetate	105.8	10	100	0	106	75-125	103.9	1.84	20	
Vinyl chloride	47.58	2.0	50	0	95.2	60-135	48.38	1.66	20	
Xylenes, Total	153.8	15	150	0	103	75-125	150.6	2.04	20	
Surr: 1,2-Dichloroethane-d4	47.11	5.0	50	0	94.2	70-130	47.1	0.0281	20	
Surr: 4-Bromofluorobenzene	47.93	5.0	50	0	95.9	70-130	47.78	0.313	20	
Surr: Dibromofluoromethane	47.6	5.0	50	0	95.2	70-130	47.25	0.747	20	
Surr: Toluene-d8	45.07	5.0	50	0	90.1	70-130	44.11	2.15	20	

The following samples were analyzed in this batch:

0401088-02A 0401088-03A

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Referenced analytic value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18253 InstrumentID: VOA_I

MBLK	Sample ID: VBLKW-0114	Test Code: SW8260		Units: µg/L		Analysis Date: 01/14/04 11:51				
Client ID:		Run ID:	VOA_I_040114A	SeqNo:	417255	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	5.0								
1,1,2,2-Tetrachloroethane	ND	5.0								
1,1,2-Trichloroethane	ND	5.0								
1,1-Dichloroethane	ND	5.0								
1,1-Dichloroethene	ND	5.0								
1,2-Dichloroethane	ND	5.0								
2-Butanone	ND	10								
2-Chloroethyl vinyl ether	ND	10								
2-Hexanone	ND	10								
4-Methyl-2-pentanone	ND	10								
Acetone	ND	10								
Benzene	ND	5.0								
Bromodichloromethane	ND	5.0								
Bromoform	ND	5.0								
Bromomethane	ND	5.0								
Carbon disulfide	ND	10								
Carbon tetrachloride	ND	5.0								
Chlorobenzene	ND	5.0								
Chloroethane	ND	5.0								
Chloroform	ND	5.0								
Chloromethane	ND	5.0								
cis-1,3-Dichloropropene	ND	5.0								
Dibromochloromethane	ND	5.0								
Ethylbenzene	ND	5.0								
m,p-Xylene	ND	10								
Methylene chloride	ND	10								
Styrene	ND	5.0								
Tetrachloroethene	ND	5.0								
Toluene	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0								
Trichloroethene	ND	5.0								
Vinyl acetate	ND	10								
Vinyl chloride	ND	2.0								
Xylenes, Total	ND	15								
Surr: 1,2-Dichloroethane-d4	48.88	5.0	50	0	97.8	70-130		0		
Surr: 4-Bromofluorobenzene	48.05	5.0	50	0	96.1	70-130		0		
Surr: Dibromofluoromethane	48.95	5.0	50	0	97.9	70-130		0		
Surr: Toluene-d8	43.83	5.0	50	0	87.7	70-130		0		

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18253 InstrumentID: VOA_I

LCS	Sample ID: VLCSW-0114	Test Code: SW8260		Units: µg/L		Analysis Date: 01/14/04 10:56			
Client ID:		Run ID:	VOA_I_040114A	SeqNo:	417254	Prep Date:	DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
1,1,1-Trichloroethane	52.52	5.0	50	0	105	75-118	0	0	
1,1,2,2-Tetrachloroethane	45.03	5.0	50	0	90.1	79-120	0	0	
1,1,2-Trichloroethane	46.27	5.0	50	0	92.5	81-119	0	0	
1,1-Dichloroethane	48.14	5.0	50	0	96.3	80-120	0	0	
1,1-Dichloroethene	48.97	5.0	50	0	97.9	80-120	0	0	
1,2-Dichloroethane	53.08	5.0	50	0	106	80-120	0	0	
2-Butanone	110.5	10	100	0	111	70-130	0	0	
2-Chloroethyl vinyl ether	87.85	10	100	0	87.9	72-120	0	0	
2-Hexanone	84.46	10	100	0	84.5	70-130	0	0	
4-Methyl-2-pentanone	90.54	10	100	0	90.5	78-120	0	0	
Acetone	129.4	10	100	0	129	60-135	0	0	
Benzene	45.87	5.0	50	0	91.7	82-119	0	0	
Bromodichloromethane	51.93	5.0	50	0	104	81-119	0	0	
Bromoform	50.73	5.0	50	0	101	80-120	0	0	
Bromomethane	55.15	5.0	50	0	110	75-130	0	0	
Carbon disulfide	94.47	10	100	0	94.5	78-120	0	0	
Carbon tetrachloride	53.46	5.0	50	0	107	77-120	0	0	
Chlorobenzene	46.55	5.0	50	0	93.1	82-118	0	0	
Chloroethane	48.16	5.0	50	0	96.3	78-122	0	0	
Chloroform	51.59	5.0	50	0	103	78-120	0	0	
Chloromethane	51.27	5.0	50	0	103	75-125	0	0	
cis-1,3-Dichloropropene	49.23	5.0	50	0	98.5	81-120	0	0	
Dibromochloromethane	50.71	5.0	50	0	101	81-118	0	0	
Ethylbenzene	45.53	5.0	50	0	91.1	82-120	0	0	
m,p-Xylene	90.37	10	100	0	90.4	82-122	0	0	
Methylene chloride	46.61	10	50	0	93.2	80-122	0	0	
Styrene	45.83	5.0	50	0	91.7	82-121	0	0	
Tetrachloroethene	49.19	5.0	50	0	98.4	79-118	0	0	
Toluene	44.37	5.0	50	0	88.7	81-119	0	0	
trans-1,3-Dichloropropene	50.63	5.0	50	0	101	82-121	0	0	
Trichloroethene	50.8	5.0	50	0	102	78-118	0	0	
Vinyl acetate	100.5	10	100	0	101	75-120	0	0	
Vinyl chloride	46.16	2.0	50	0	92.3	73-127	0	0	
Xylenes, Total	136.3	15	150	0	90.9	80-120	0	0	
Surr: 1,2-Dichloroethane-d4	47.81	5.0	50	0	95.6	70-130	0	0	
Surr: 4-Bromofluorobenzene	48.49	5.0	50	0	97	70-130	0	0	
Surr: Dibromofluoromethane	48.77	5.0	50	0	97.5	70-130	0	0	
Surr: Toluene-d8	44.19	5.0	50	0	88.4	70-130	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

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U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18253 InstrumentID: VOA_I

MS	Sample ID: 0401088-06AMS	Test Code: SW8260		Units: µg/L		Analysis Date: 01/14/04 13:38			
Client ID:	MW-59	Run ID:	VOA_I_040114A	SeqNo:	417259	Prep Date:	DF:	1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RD Limit	Qual
1,1,1-Trichloroethane	50.04	5.0	50	0	100	75-125	0	0	
1,1,2,2-Tetrachloroethane	43.17	5.0	50	0	86.3	75-125	0	0	
1,1,2-Trichloroethane	45.49	5.0	50	0	91	75-125	0	0	
1,1-Dichloroethane	47.34	5.0	50	0	94.7	75-125	0	0	
1,1-Dichloroethene	47.32	5.0	50	0	94.6	65-130	0	0	
1,2-Dichloroethane	55.32	5.0	50	0	111	70-130	0	0	
2-Butanone	93.34	10	100	0	93.3	64-128	0	0	
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	0	S
2-Hexanone	91.76	10	100	0	91.8	72-124	0	0	
4-Methyl-2-pentanone	97.94	10	100	0	97.9	75-125	0	0	
Acetone	123.1	10	100	0	123	60-130	0	0	
Benzene	48.45	5.0	50	2.387	92.1	76-127	0	0	
Bromodichloromethane	52.93	5.0	50	0	106	75-125	0	0	
Bromoform	49.27	5.0	50	0	98.5	75-125	0	0	
Bromomethane	52.54	5.0	50	0	105	75-125	0	0	
Carbon disulfide	90.54	10	100	0	90.5	75-125	0	0	
Carbon tetrachloride	50.91	5.0	50	0	102	70-130	0	0	
Chlorobenzene	44.16	5.0	50	0	88.3	75-126	0	0	
Chloroethane	45	5.0	50	0	90	70-130	0	0	
Chloroform	51.41	5.0	50	0	103	75-125	0	0	
Chloromethane	50.28	5.0	50	0	101	75-125	0	0	
cis-1,3-Dichloropropene	49.77	5.0	50	0	99.5	75-125	0	0	
Dibromochloromethane	49.04	5.0	50	0	98.1	75-125	0	0	
Ethylbenzene	44.39	5.0	50	1.653	85.5	75-125	0	0	
m,p-Xylene	88.23	10	100	1.385	86.8	75-125	0	0	
Methylene chloride	47.46	10	50	0	94.9	75-125	0	0	
Styrene	41.27	5.0	50	0	82.5	75-125	0	0	
Tetrachloroethene	45.79	5.0	50	0	91.6	75-125	0	0	
Toluene	42.93	5.0	50	0	85.9	76-125	0	0	
trans-1,3-Dichloropropene	51.59	5.0	50	0	103	70-130	0	0	
Trichloroethene	49.88	5.0	50	0	99.8	71-120	0	0	
Vinyl acetate	84.52	10	100	0	84.5	75-125	0	0	
Vinyl chloride	42.55	2.0	50	0	85.1	60-135	0	0	
Xylenes, Total	132.9	15	150	0	88.6	75-125	0	0	
Surr: 1,2-Dichloroethane-d4	48.24	5.0	50	0	96.5	70-130	0	0	
Surr: 4-Bromofluorobenzene	48.52	5.0	50	0	97	70-130	0	0	
Surr: Dibromofluoromethane	48.95	5.0	50	0	97.9	70-130	0	0	
Surr: Toluene-d8	43.5	5.0	50	0	87	70-130	0	0	

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18253 InstrumentID: VOA_I

MSD	Sample ID: 0401088-06AMSD	Test Code: SW8260		Units: µg/L		Analysis Date: 01/14/04 14:05		
Client ID:	MW-59	Run ID:	VOA_I_040114A	SeqNo:	417260	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
1,1,1-Trichloroethane	52.61	5.0	50	0	105	75-125	50.04	5.01 20
1,1,2,2-Tetrachloroethane	45.07	5.0	50	0	90.1	75-125	43.17	4.3 20
1,1,2-Trichloroethane	46.33	5.0	50	0	92.7	75-125	45.49	1.83 20
1,1-Dichloroethane	49.92	5.0	50	0	99.8	75-125	47.34	5.3 20
1,1-Dichloroethene	49.9	5.0	50	0	99.8	65-130	47.32	5.29 20
1,2-Dichloroethane	55.86	5.0	50	0	112	70-130	55.32	0.982 20
2-Butanone	115.5	10	100	0	116	64-128	93.34	21.2 20 R
2-Chloroethyl vinyl ether	ND	10	100	0	0	75-125	0	0 20 S
2-Hexanone	93.83	10	100	0	93.8	72-124	91.76	2.23 20
4-Methyl-2-pentanone	104	10	100	0	104	75-125	97.94	6.03 20
Acetone	127.7	10	100	0	128	60-130	123.1	3.65 20
Benzene	50.17	5.0	50	2.387	95.6	76-127	48.45	3.49 20
Bromodichloromethane	54.87	5.0	50	0	110	75-125	52.93	3.58 20
Bromoform	50.95	5.0	50	0	102	75-125	49.27	3.35 20
Bromomethane	55.48	5.0	50	0	111	75-125	52.54	5.44 20
Carbon disulfide	95.67	10	100	0	95.7	75-125	90.54	5.51 20
Carbon tetrachloride	52.15	5.0	50	0	104	70-130	50.91	2.4 20
Chlorobenzene	46.1	5.0	50	0	92.2	75-126	44.16	4.29 20
Chloroethane	49.37	5.0	50	0	98.7	70-130	45	9.27 20
Chloroform	53.44	5.0	50	0	107	75-125	51.41	3.87 20
Chloromethane	53.22	5.0	50	0	106	75-125	50.28	5.68 20
cis-1,3-Dichloropropene	51.15	5.0	50	0	102	75-125	49.77	2.74 20
Dibromochloromethane	51.3	5.0	50	0	103	75-125	49.04	4.5 20
Ethylbenzene	47.03	5.0	50	1.653	90.8	75-125	44.39	5.77 20
m,p-Xylene	91.21	10	100	1.385	89.8	75-125	88.23	3.32 20
Methylene chloride	49.64	10	50	0	99.3	75-125	47.46	4.5 20
Styrene	43.32	5.0	50	0	86.6	75-125	41.27	4.85 20
Tetrachloroethene	47.5	5.0	50	0	95	75-125	45.79	3.65 20
Toluene	45.16	5.0	50	0	90.3	76-125	42.93	5.08 20
trans-1,3-Dichloropropene	52.72	5.0	50	0	105	70-130	51.59	2.18 20
Trichloroethene	51.66	5.0	50	0	103	71-120	49.88	3.51 20
Vinyl acetate	96.09	10	100	0	96.1	75-125	84.52	12.8 20
Vinyl chloride	45.69	2.0	50	0	91.4	60-135	42.55	7.1 20
Xylenes, Total	137.5	15	150	0	91.7	75-125	132.9	3.41 20
Surr: 1,2-Dichloroethane-d4	49.39	5.0	50	0	98.8	70-130	48.24	2.34 20
Surr: 4-Bromofluorobenzene	48.72	5.0	50	0	97.4	70-130	48.52	0.424 20
Surr: Dibromofluoromethane	49.94	5.0	50	0	99.9	70-130	48.95	2.01 20
Surr: Toluene-d8	44.02	5.0	50	0	88	70-130	43.5	1.19 20

The following samples were analyzed in this batch:

0401088-04A	0401088-05A	0401088-06A
0401088-07A	0401088-08A	0401088-09A

ND - Not Detected at the Reporting Limit

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J - Analytic detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

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P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18247 InstrumentID: Wet Chemistry

MBLK Sample ID: WMBW1-011404 Test Code: E310.1 Units: mg/L Analysis Date: 01/14/04 0:00

Client ID: Run ID: WET CHEMISTRY_0401 SeqNo: 417012 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0								
Alkalinity, Carbonate (As CaCO3)	ND	5.0								
Alkalinity, Hydroxide (As CaCO3)	ND	5.0								
Alkalinity, Total (As CaCO3)	ND	5.0								

LCS Sample ID: WLCSW1-011404 Test Code: E310.1 Units: mg/L Analysis Date: 01/14/04 0:00

Client ID: Run ID: WET CHEMISTRY_0401 SeqNo: 417013 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Total (As CaCO3)	980.6	5.0	1000	0	98.1	80-120	0			

DUP Sample ID: 0401065-03D DUP Test Code: E310.1 Units: mg/L Analysis Date: 01/14/04 0:00

Client ID: Run ID: WET CHEMISTRY_0401 SeqNo: 417017 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	407	5.0	0	0	0	0-0	407	0	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	407	5.0	0	0	0	0-0	407	0	20	

DUP Sample ID: 0401088-09B DUP Test Code: E310.1 Units: mg/L Analysis Date: 01/14/04 0:00

Client ID: NCL-34 Run ID: WET CHEMISTRY_0401 SeqNo: 417038 Prep Date: DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	612.9	5.0	0	0	0	0-0	617.8	0.796	20	
Alkalinity, Carbonate (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Hydroxide (As CaCO3)	ND	5.0	0	0	0	0-0	0	0	20	
Alkalinity, Total (As CaCO3)	612.9	5.0	0	0	0	0-0	617.8	0.796	20	

The following samples were analyzed in this batch:

0401088-01B	0401088-02B	0401088-03B
0401088-04B	0401088-05B	0401088-06B
0401088-07B	0401088-08B	0401088-09B

ND - Not Detected at the Reporting Limit

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O - Reference analytic value is > 4 times amount spiked

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R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

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E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18251 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-011304		Test Code: E300		Units: mg/L		Analysis Date: 01/13/04 14:45		
Client ID:		Run ID: IC201_040113A		SeqNo: 417179		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.22	0.10	5	0	84.4	80-120		0		

LCS		Sample ID: WLCSW1-011304		Test Code: E300		Units: mg/L		Analysis Date: 01/13/04 15:17		
Client ID:		Run ID: IC201_040113A		SeqNo: 417180		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.39	0.50	10	0	93.9	80-120		0		
Fluoride	1.94	0.10	2	0	97	80-120		0		
Sulfate	9.64	1.0	10	0	96.4	80-120		0		
Surr: Dichloroacetic acid (surr)	5.38	0.10	5	0	108	80-120		0		

LCSD		Sample ID: WLCSDW1-01130		Test Code: E300		Units: mg/L		Analysis Date: 01/13/04 15:50		
Client ID:		Run ID: IC201_040113A		SeqNo: 417181		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.36	0.50	10	0	93.6	80-120	9.39	0.32	20	
Fluoride	1.97	0.10	2	0	98.5	80-120	1.94	1.53	20	
Sulfate	9.58	1.0	10	0	95.8	80-120	9.64	0.624	20	
Surr: Dichloroacetic acid (surr)	5.24	0.10	5	0	105	80-120	5.38	2.64	20	

MS		Sample ID: 0401088-01BMS		Test Code: E300		Units: mg/L		Analysis Date: 01/13/04 17:27		
Client ID:		Run ID: IC201_040113A		SeqNo: 417184		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	68.74	0.50	10	58.31	104	75-125		0		EO
Fluoride	3.34	0.10	2	1.46	94	75-125		0		
Sulfate	1517	1.0	10	1534	-163	75-125		0		SEO
Nitrate/Nitrite (as N)	3.94	0.10	4	0	98.5	75-125		0		
Surr: Dichloroacetic acid (surr)	5.46	0.10	5	0	109	80-120		0		

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

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U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18251 InstrumentID: IC201

MSD	Sample ID: 0401088-01BMSD		Test Code: E300		Units: mg/L		Analysis Date: 01/13/04 18:00			
Client ID:	MW-53	Run ID:	IC201_040113A	SeqNo:	417185	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	68.67	0.50	10	58.31	104	75-125	68.74	0.102	20	EO
Fluoride	3.31	0.10	2	1.46	92.5	75-125	3.34	0.902	20	
Sulfate	1519	1.0	10	1534	-147	75-125	1517	0.108	20	SEO
Nitrate/Nitrite (as N)	3.92	0.10	4	0	98	75-125	3.94	0.509	20	
Surr: Dichloroacetic acid (surr)	5.56	0.10	5	0	111	80-120	5.46	1.81	20	

DUP	Sample ID: 0401088-01BDUP		Test Code: E300		Units: mg/L		Analysis Date: 01/13/04 16:55			
Client ID:	MW-53	Run ID:	IC201_040113A	SeqNo:	417183	Prep Date:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Fluoride	1.43	0.10	0	0	0	0-0	1.46	2.08	20	
Nitrate/Nitrite (as N)	ND	0.10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	5.28	0.10	5	0	106	80-120	5.28	0	20	

The following samples were analyzed in this batch:

0401088-01B	0401088-02B	0401088-03B
0401088-04B	0401088-05B	0401088-06B
0401088-07B	0401088-08B	0401088-09B

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

O - Referenced analytic value is > 4 times amount spiked

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

P - Dual Column results percent difference > 40%

B - Analyte detected in assoc. Method Blank

U - Analyzed for but not detected

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18281		InstrumentID: UV-2101PC								
MBLK Sample ID: WMBW1-011604		Test Code: E335.3				Units: mg/L		Analysis Date: 01/16/04 0:00		
Client ID:		Run ID: UV-2101PC_040116A				SeqNo:	417865	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020								
LCS Sample ID: WLCW1-011604		Test Code: E335.3				Units: mg/L		Analysis Date: 01/16/04 0:00		
Client ID:		Run ID: UV-2101PC_040116A				SeqNo:	417866	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.2071	0.020	0.2	0	104	80-120		0		
MS Sample ID: 0401088-01D MS		Test Code: E335.3				Units: mg/L		Analysis Date: 01/16/04 0:00		
Client ID: MW-53		Run ID: UV-2101PC_040116A				SeqNo:	417882	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1938	0.020	0.2	0.002	95.9	75-125		0		
MSD Sample ID: 0401088-01D MSD		Test Code: E335.3				Units: mg/L		Analysis Date: 01/16/04 0:00		
Client ID: MW-53		Run ID: UV-2101PC_040116A				SeqNo:	417883	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	0.1985	0.020	0.2	0.002	98.2	75-125	0.1938	2.4	25	
DUP Sample ID: 0401088-01D DUP		Test Code: E335.3				Units: mg/L		Analysis Date: 01/16/04 0:00		
Client ID: MW-53		Run ID: UV-2101PC_040116A				SeqNo:	417881	Prep Date:	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide	ND	0.020	0	0	0	0-0	0.002	0	20	

The following samples were analyzed in this batch:

0401088-01D	0401088-02D	0401088-03D
0401088-04D	0401088-05D	0401088-06D
0401088-07D	0401088-08D	0401088-09D

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18369 InstrumentID: IC201

MBLK		Sample ID: WBLKW1-012104		Test Code: E300		Units: mg/L		Analysis Date: 01/22/04 2:16		
Client ID:		Run ID: IC201_040121A		SeqNo: 419927		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.50								
Fluoride	ND	0.10								
Sulfate	ND	1.0								
Nitrate/Nitrite (as N)	ND	0.10								
Surr: Dichloroacetic acid (surr)	4.65	0.10	5	0	93	80-120	0			

LCS		Sample ID: WLCSW1-012104		Test Code: E300		Units: mg/L		Analysis Date: 01/22/04 2:49		
Client ID:		Run ID: IC201_040121A		SeqNo: 419928		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.25	0.50	10	0	92.5	80-120	0			
Fluoride	1.98	0.10	2	0	99	80-120	0			
Sulfate	9.77	1.0	10	0	97.7	80-120	0			
Surr: Dichloroacetic acid (surr)	5.14	0.10	5	0	103	80-120	0			

LCSD		Sample ID: WLCSDW1-01210		Test Code: E300		Units: mg/L		Analysis Date: 01/22/04 3:21		
Client ID:		Run ID: IC201_040121A		SeqNo: 419930		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	9.45	0.50	10	0	94.5	80-120	9.25	2.14	20	
Fluoride	2	0.10	2	0	100	80-120	1.98	1.01	20	
Sulfate	9.67	1.0	10	0	96.7	80-120	9.77	1.03	20	
Surr: Dichloroacetic acid (surr)	4.98	0.10	5	0	99.6	80-120	5.14	3.16	20	

MS		Sample ID: 0401088-01BMS		Test Code: E300		Units: mg/L		Analysis Date: 01/22/04 4:59		
Client ID:		Run ID: IC201_040121A		SeqNo: 419933		Prep Date:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	954	50	1000	160	79.4	75-125	0			
Fluoride	200	10	200	0	100	75-125	0			
Sulfate	2060	100	1000	1137	92.3	75-125	0			
Nitrate/Nitrite (as N)	383	10	400	0	95.8	75-125	0			
Surr: Dichloroacetic acid (surr)	495	10	500	0	99	80-120	0			

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

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U - Analyzed for but not detected

O - Referenced analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range

CLIENT: Navajo Refining Company
Work Order: 0401088
Project: NCL/TEL

QC BATCH REPORT

Batch ID: R18369 InstrumentID: IC201

MSD	Sample ID: 0401088-01BMSD		Test Code: E300		Units: mg/L		Analysis Date: 01/22/04 5:31			
Client ID:	MW-53	Run ID:	IC201_040121A	SeqNo:	419934	Prep Date:	DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	943	50	1000	160	78.3	75-125	954	1.16	20	
Fluoride	197	10	200	0	98.5	75-125	200	1.51	20	
Sulfate	2040	100	1000	1137	90.3	75-125	2060	0.976	20	
Nitrate/Nitrite (as N)	377	10	400	0	94.2	75-125	383	1.58	20	
Surr: Dichloroacetic acid (surr)	484	10	500	0	96.8	80-120	495	2.25	20	

DUP	Sample ID: 0401088-08BDUP		Test Code: E300		Units: mg/L		Analysis Date: 01/22/04 10:24			
Client ID:	NCL-33	Run ID:	IC201_040121A	SeqNo:	419916	Prep Date:	DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	301.2	5.0	0	0	0	0-0	301.7	0.166	20	
Fluoride	4.8	1.0	0	0	0	0-0	4.7	2.11	20	
Sulfate	307	10	0	0	0	0-0	307.1	0.0326	20	
Nitrate/Nitrite (as N)	ND	1.0	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	49.7	1.0	50	0	99.4	80-120	49.5	0.403	20	

DUP	Sample ID: 0401088-01BDUP		Test Code: E300		Units: mg/L		Analysis Date: 01/22/04 4:26			
Client ID:	MW-53	Run ID:	IC201_040121A	SeqNo:	419932	Prep Date:	DF: 100			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	159	50	0	0	0	0-0	160	0.627	20	
Fluoride	ND	10	0	0	0	0-0	0	0	20	
Sulfate	1131	100	0	0	0	0-0	1137	0.529	20	
Nitrate/Nitrite (as N)	ND	10	0	0	0	0-0	0	0	20	
Surr: Dichloroacetic acid (surr)	499	10	500	0	99.8	80-120	514	2.96	20	

The following samples were analyzed in this batch:

0401088-01B	0401088-02B	0401088-03B
0401088-04B	0401088-05B	0401088-06B
0401088-08B	0401088-09B	

ND - Not Detected at the Reporting Limit

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B - Analyte detected in assoc. Method Blank

J - Analyte detected below quantitation limits

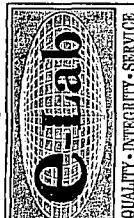
R - RPD outside accepted recovery limits

U - Analyzed for but not detected

O - Reference analyte value is > 4 times amount spiked

P - Dual Column results percent difference > 40%

E - Value above quantitation range



e-Lab, Inc.
10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

Chain of Custody Form

e-Lab, Inc.

10450 Stancliff Rd. #210
Houston, Texas 77099
(Tel) 281.530.5656
(Fax) 281.530.5887

e-Lab, Inc.
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

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e-Lab, Inc.

Sample Receipt Checklist

Client Name NAVAJO REFINING

Date/Time Received: 1/13/2004 8:40:00 AM

Work Order Number 0401088

Received by: RSZ

Checklist completed by

Signature

Date _____

Reviewed by

Initials

Date

Matrix:

Carrier name FedEx

- | | | | | |
|---|---|--|------------------------|-------------------------------------|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present | <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present | <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present | <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Temperature(s)/Thermometer(s): | 2.2c, 3.5c, 2.7c | 002 | | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted | <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A | <input type="checkbox"/> |

Adjusted? _____ Checked by _____

Client made note of ID difference for NCL-33; logged in as NCL-33 per clients note.

Any No and/or NA (not applicable) response must be detailed in the comments section below.

For more information about the study, please contact Dr. Michael J. Hwang at (319) 356-4000 or email at mhwang@uiowa.edu.

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action