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2006 ANNUAL PROGRESS MONITORING REPORT PHASE I – OPERABLE UNIT 2

FORMER SINCLAIR REFINERY SITE WELLSVILLE, NEW YORK

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1.0 OVERVIEW

1.1 Site Description and Project Overview

This document provides a remediation progress update for the Operable Unit 2 (OU2) portion of the Former Sinclair Refinery (Site) located in the Town and Village of Wellsville, Allegany County, New York (please see Figure 1). This report covers the time period from January 1 to December 31, 2006. An electronic copy of this report is included as Appendix A.

The OU2 site consists of the approximately 90 acre former refinery area and is currently occupied by a number of commercial/manufacturing businesses and the State University of New York (SUNY Alfred) at Wellsville campus. SUNY Alfred operates a vocational—technical school at the Site consisting of various vocational programs. Most of the former refinery structures were removed before 1964; however some buildings from the original refinery operations are still present. Most of these buildings have been renovated and are now in use supporting current occupants. Some of the original buildings are vacant.

The Remedial Investigation/Feasibility Study (RI/FS) and Remedial Design Investigation (RDI) efforts at OU2 were conducted between 1985 and 1994. The United States Environmental Protection Agency (USEPA) issued the OU2 Record of Decision (ROD) on September 30, 1991 and Unilateral Administrative Order (UAO) on September 8, 1992. The ROD and UAO specified cleanup levels for groundwater and surface water for the OU2 area of the Site. The shallow water bearing zone at the Site is designated by New York State as a class GA aquifer, and the Genesee River adjacent to the Site is designated a Class A surface water. These classifications characterize the water bearing zone and river as potential sources of potable water. Chemical-specific applicable or relevant and appropriate requirements (ARARs) for groundwater and surface water at the Site were defined as federal maximum contaminant levels (MCLs) and state ambient water quality standards (AWQSs).

The OU2 remedial actions have consisted of the following:

- Remediation of surface soils completed in 1993;
- Remediation of the Northern Oil Water Separator completed in 1993;
- Demolition of the Powerhouse completed in 1993; and
- Implementation of a phased approach to groundwater remediation.

The phased groundwater remediation approach was approved in 1994. Phase I remediation of groundwater involved the construction, operation, and monitoring of a groundwater extraction and water treatment system, and three air sparging/soil vapor extraction (AS/SVE) systems. Operation of these remedial systems was initiated in 1995 and enhanced with an expanded AS/SVE system in December 1997. Phase I groundwater remediation is complete as

documented in *Phase I Completion Report, Former Sinclair Refinery Site (OU2) Wellsville, New York,* August, 2001. The Phase I AS/SVE systems were deactivated in July 2003 following USEPA approval of the Phase II Remedial Design Investigation Work Plan. The Phase I groundwater extraction and water treatment system is scheduled to continue operations until Phase II is implemented. Design activities for Phase II are currently being finalized. Phase II is anticipated to include a downgradient hydrogeologic barrier and an engineered wetland treatment system.

1.2 Report Organization

This report documents the Phase I progress monitoring completed from January 1 through December 31, 2006. The remainder of the report is organized as follows:

- Section 2 describes the groundwater extraction and treatment operations;
- Section 3 presents the groundwater chemical monitoring results;
- Section 4 provides the groundwater physical and geochemical monitoring results; and
- Section 5 outlines the Genesee River monitoring activities.

2.0 GROUNDWATER EXTRACTION AND TREATMENT SYSTEM

2.1 Treatment System Overview

System Components

The groundwater treatment system and building were constructed in 2004 following a fire in the previous water treatment building at the same location. The groundwater treatment system consists of the following components: i) a MSD-4-500 Multistage Diffuser (Air Stripper) manufactured by Carbtrol Corporation; ii) an equalization tank and pump to transfer water from the air stripper to the metals treatment unit; iii) a two stage reaction, flocculation and clarification metals treatment unit rehabilitated from the previous system; iv) two, 200-pound Hayward sand filters; v) two Carbtrol 1400-pound granular activated carbon (GAC) units; vi) an Iron Removal Filter manufactured by Carbtrol Corporation; and vii) a four cubic foot plate and frame filter press manufactured by Hoffland Environmental Inc. The sand filters and GAC units were added to the system in 2005. The sand filters were installed on January 28, 2005 and the GAC units were put online on July 1, 2005.

Process Overview

Groundwater is pumped from Northern Area recovery wells RW-1, RW-2 and RW-3 to the air stripper, which removes Volatile Organic Compounds (VOCs). Process water is pumped from the air stripper to the metals treatment unit. Prior to the metals treatment unit, hydrogen peroxide

(35%) is injected inline to oxidize the ferrous (dissolved) iron to ferric state. A pH controller adds caustic soda (50%) to reactor Chamber 1 to raise the pH from approximately 6.5 to a range of 7.5 to 8.5. The water is continually mixed and an anionic polymer (Drewfloc 2278) is added to promote flocculation of solids. The floc and process water flows over a weir and into the solids settling chamber. The process water rises through the inclined plate settling racks and over an effluent weir to two sand filters. The settled solids accumulate in the inverted pyramid shaped bottom section of the clarifier. The solids are periodically pumped to a holding tank and then filter pressed prior to disposal at an approved off-site landfill. From the metals treatment unit, process water flows to an equalization tank before being pumped through the two sand filters. The sand filters are plumbed in parallel and are equipped with a programmable automatic backwash valve. The sand filters remove suspended solids from the process water prior to the GAC units. The GACs each hold approximately 1400 pounds of carbon and are piped in series. Process water is polished by the GACs and pumped to the Iron filter. The Iron filter acts as an equalization tank and a final suspended solids filter. From the Iron filter, treated water gravity drains to the Genesee River. A process flow diagram is provided as Figure 2.

2006 System Operations

During 2006, the treatment system operated 97% of the time. A total of approximately 5,111,100 gallons of water were treated. Approximately six cubic yards of sludge was produced from the metals treatment unit and properly disposed off-site. Additionally, five 55-gallon drums of used absorbents (river booms) were properly disposed off-site. Both the boxes and drums were disposed as non-hazardous waste at an approved off-site facility. A 2006 waste disposal summary is provided as Table 1.

Compliance sampling and chemical analysis of influent (sample port SP-114), effluent (SP-219) and between the GACs (SP-217) was completed on a monthly basis. The monthly effluent analytical results are below discharge limits. Monthly compliance analytical results are presented in Table 2. Data validation was completed on laboratory analytical results. Monthly compliance data validation reports are included as Appendix B.

3.0 GROUNDWATER CHEMICAL MONITORING RESULTS

Interim groundwater monitoring (until Phase II is implemented) requirements were proposed in a letter from Atlantic Richfield Company to USEPA entitled: *Proposed Revisions to Interim OU2 Groundwater Monitoring Plan, Former Sinclair Refinery, Wellsville, NY,* dated April 29, 2003. This plan was approved by USEPA in correspondence dated May 28, 2003. The interim plan requires 13 wells along the downgradient side of the Site be sampled annually during the second quarter of the year.

3.1 Sampling and Analysis

The 2006 annual OU2 groundwater sampling event was completed between June 13 and 21, 2006. Sampling activities were performed by On-Site Technical Services and laboratory analysis was conducted by Accutest Laboratories, Dayton, New Jersey. Required analyses are listed by area below.

Well	Required Analysis		
Northe	ern Area		
MW-10	BTEX, CVOC, SVOC, Ar		
MW-11	BTEX, Ar		
MW-69A	BTEX, CVOC, Ar		
MW-78	BTEX, Ar		
MW-7	'0 Area		
MW-70	BTEX, SVOC, Ar		
OW-1	BTEX, SVOC, Ar		
OW-3	BTEX, SVOC, Ar		
Central Area			
MW-9	BTEX, Ar		
MW-71	BTEX, Ar		
OW-4	BTEX, Ar		
Southe	ern Area		
MW-7	BTEX, Ar		
MW-55	BTEX, Ar		
MW-96	BTEX, Ar		

Notes:

BTEX – Benzene, Toluene, Ethylbenzene, Total Xylene (SW846, 8260B)

CVOC – cis-1,2-Dichloroethene, Vinyl chloride (SW846, 8260B)

SVOC – 2-Aminopheneol, Aniline, Azobenzene, Azoxybenzene, Nitrobenzene, Nitrosobenzene (SW846, 8270C)

Ar – Arsenic (EPA 200.7 (ICP), SW846 6010B (ICP))

Sampling was completed following low-flow sampling techniques using a combination of non-dedicated bladder and grundfus pumps. The pump and Teflon® coated tubing were decontaminated between each well following a three step washing procedure: (i) phosphate-free detergent (Liqui-nox) and tap water wash; (ii) tap water rinse; followed by (iii) distilled water rinse. Equipment rinsate blanks were collected from each pump and tubing each day used. Due to a shipping error, samples from wells MW-7, MW-11, MW-71, MW-78 and MW-91 sent on June 14, 2006 were not received by the laboratory until June 19, 2006 at 19.8°C. Since these samples were received above temperature requirements, samples were recollected from these wells on June 20 and 21, 2006 and sent to the laboratory. Well locations with analytical results are shown in Figure 3. Results are discussed in the following sections.

3.2 Dissolved BTEX Concentrations

Groundwater BTEX compounds (benzene, toluene, ethylbenzene and total xylene) were analyzed in the 13 wells sampled in accordance with the current sampling plan. Groundwater BTEX concentrations at the June 2006 sampling locations are generally in the range observed over the past six years. For discussion purposes the site has been divided into 4 areas, Northern Area, MW-70 Area, Central Area, and Southern Area.

In the Northern Area, which is represented by wells MW-10, MW-11, MW-69A and MW-78, benzene was the only BTEX parameter exceeding water quality standards, having exceeded both MCLs and AWQSs at monitoring well MW-69A and AWQS at monitoring well MW-78. Since the Northern Area has ongoing groundwater extraction and treatment, BTEX groundwater concentrations over time have been tracked as presented in Figure 4. Since 1999, BTEX groundwater concentrations in the Northern Area are significantly lower than historic concentrations.

Three MW-70 Area wells, MW-70, OW-01 and OW-03, exhibited benzene MCL and AWQS exceedances. Additionally, MW-70 and OW-3 exceeded toluene, ethyl benzene and xylenes AWQSs.

The Central Area includes wells MW-09, MW-71 and OW-04. With the exception of benzene detected at MW-09, BTEX compounds were not observed in these wells during 2006.

The Southern Area is represented by monitoring wells MW-07, MW-55 and MW-96. MW-55 groundwater concentrations exceeded the benzene AWQS and MCL, as well as AWQSs for toluene, ethyl benzene and xylenes. Additionally, benzene exceeded AWQS at MW-07 and MW-96.

A tabular listing of the June 2006 BTEX results is presented in Table 3.

3.3 Chlorinated VOC Concentrations

Historically, MW-10 and MW-69A in the Northern Area have shown detections of Chlorinated Volatile Organic Compounds (CVOCs). June 2006 samples were tested for cis-1,2-dichloroethene (cDCE) and vinyl chloride as required by the current monitoring plan. The June 2006 concentrations are consistent with historic results. In 2006, MW-69A exceeded the AWQS and MCL for vinyl chloride. The June 2006 CVOC groundwater concentrations are presented in Table 4.

3.4 SVOC Concentrations

Previous groundwater monitoring results have shown an area of elevated nitrobenzene and aniline concentrations in the MW-70 Area and at MW-10 (south end of Northern Area). SVOCs were not detected at MW-10 in the June 2006 sampling event. With the exception of aniline and nitrobenzene, SVOCs were not detected at MW-70, OW-1 and OW-3 during June 2006. Both aniline and nitrobenzene exceeded AWQSs at MW-70 and OW-3. The levels observed are consistent with historical data from these wells. June 2006 SVOC groundwater concentrations are presented in Table 5.

3.5 Arsenic Concentrations

Analysis was performed for total arsenic at the 13 monitoring wells sampled in June 2006. Total arsenic was detected in samples from 12 of the 13 monitoring wells. Arsenic was not detected at MW-71. The arsenic MCL is 0.010 mg/L and the AWQS is 0.025 mg/L. In June 2006, total arsenic concentrations exceeded both MCL and AWQS at MW-10, MW-11, MW-55, MW-69A, MW-70, MW-78, MW-96, OW-1 and OW-4. Additionally, the arsenic MCL was exceeded at MW-7, MW-9 and OW-3. June 2006 groundwater arsenic results are consistent with previous monitoring results and are presented in Table 6.

3.6 Data Quality Assessment

Sampling procedures followed low-flow sampling techniques. Sampling pumps and tubing were cleaned between wells as indicated in section 3.1 above. Three original equipment rinsate blank samples (EB1-0606, EB2-0606 and EB3-0606) were collected by pumping distilled water through the pumps and tubing into laboratory provided sample bottles. Equipment blank EB1-0606 was collected on June 13, 2006 from the bladder pump and tubing used to collect samples from MW-9, MW-55 and MW-69A. EB2-0606 was collected from pump and tubing on June 21, 2006 associated with wells MW-7, MW-10, MW-71, MW-96 and OW-4. Equipment blank EB3-0606 was collected on June 15, 2006 from the grundfus pump and tubing used to collect samples from OW-1, MW-70 and OW-3. Equipment rinsate blanks results are non-detect and are presented in Table 7.

A field duplicate sample was collected from OW-03 on June 15, 2006. The samples were analyzed for BTEX, SVOCs and arsenic. Analytical results compare favorably between the samples. A field duplicate sample comparison is shown in Table 8.

Samples were shipped to the laboratory via Federal Express priority overnight delivery service. Most samples were received intact and in good condition by the laboratory within one to two days after sampling, except for the following samples. Monitoring well samples from MW-96, MW-7, MW-71, MW-10 and OW-4 were shipped on June 15, 2006, but not received by the lab until June 19, 2006 at a temperature of 19.8°C. These wells were resampled and shipped on June 21, 2006. Three QC trip blank samples were included in the sample coolers and analyzed for VOCs, showing non-detectable results.

Data validation was performed by the project data validator following USEPA Region II SOPs for organic and inorganic data review. Following data validation, which included some qualifier adjustments and some low level detections to be changed to non-detect, the analytical results are considered 100% complete, usable and valid. The annual groundwater data validation report is attached as Appendix B.

4.0 GROUNDWATER PHYSICAL AND GEOCHEMICAL RESULTS

4.1 Groundwater Elevations

Groundwater levels were measured on June 13, 2006 at each of the 13 wells scheduled for sampling (Table 9). Water levels were measured using a GeoTech ORS Interface Probe™ (Oil/Water Interface Probe). Light non-aqueous phase liquid (LNAPL) was detected at trace levels at MW-07 and OW-3. Oil absorbent socks were installed in MW-07 and OW-03 as a precautionary measure prior to sampling. The socks were removed from the wells immediately prior to purging and sampling each well. Groundwater elevations were calculated by subtracting the depth to water measurements from the survey elevation of the top of well casings (measuring point elevation). These groundwater elevation data, along with previous elevations were plotted verses time. The plots are presented as Figures 5 to 8 for the Northern Area, MW-70 Area, Central Area and Southern Area.

4.2 LNAPL Thickness Measurements and Removal

As a proactive measure, LNAPL removal was conducted at six wells (MW-7, OW-3, OW-8, MW-75, MW-85 and MW-86) during 2006. These six wells are the only wells where LNAPL is routinely measured at an apparent thickness more than 0.01 ft. Measurements are first conducted to determine the thickness, if any, of LNAPL in the wells. Any LNAPL present is removed by installing absorbent socks in the wells whenever an apparent LNAPL thickness greater than 0.01 ft was measured. During 2006, approximately 1.4 ounces (oz) of LNAPL was

removed from MW-7; approximately 3.8 oz from OW-3; approximately 30.2 oz from OW-8; approximately 8.5 oz from MW-75; approximately 4.7 oz from MW-85; and approximately 21.7 oz from MW-86. Table 10 provides details on LNAPL measurements and removal.

4.3 Groundwater Geochemical Parameters

Groundwater geochemical parameter monitoring was performed in the field during the June 2006 sampling event. A properly calibrated YSI[®] 556 MPS with a flow through cell was utilized to measure pH, conductivity, dissolved oxygen (DO), temperature and oxidation-reduction potential (ORP). Turbidity was measured from grab samples using a properly calibrated Hach[®] 2100P turbidity meter. Results of the June 2006 geochemical monitoring are generally consistent with historic results. DO levels continue to be low and ORP readings indicate reducing conditions at the wells. The June 2006 geochemical field parameters are listed in Table 11.

5.0 GENESEE RIVER MONITORING

River seep monitoring and boom management continues to be conducted in accordance with previously submitted plans.

River bank seeps have not been observed since June 2001. However, sub-aqueous seep activities continue during periods of low river water levels and warm temperatures. In 2006, absorbent booms and sweeps were installed on July 17, 2006 (immediately following the first observation of sub-aqueous seep activity) and removed for the winter on November 2, 2006. Boom replacement was conducted periodically throughout the year due to washout or visual appearance. Boom replacement occurred on July 31, 2006, October 3, 2006, and October 20, 2006. In the event of a boom washout, tethers attaching the booms to the river bank prevent loss during high river levels.

Table 1

2006 Off-Site Disposal Summary Former Sinclair Refinery Site (OU2) Wellsville, New York

Drum / Box No.	Contents	Type	Profile No.	Profile No. Disposal Date	Manifest No.	Disposal Facility
D-123	River Booms	Non-Hazardous	CS4644	3/28/2006	WMNH003740	CWM Chemical Services, Inc.
D-124	River Booms	Non-Hazardous	CS4644	3/28/2006	WMNH003740	CWM Chemical Services, Inc.
B-6	Filter Cake	Non-Hazardous	VB5107	3/28/2006	WMNH003740	CWM Chemical Services, Inc.
B-7	Filter Cake	Non-Hazardous	VB5107	3/28/2006	WMNH003740	CWM Chemical Services, Inc.
B-8	Filter Cake	Non-Hazardous	VB5107	3/28/2006	WMNH003740	CWM Chemical Services, Inc.
B-6	Filter Cake	Non-Hazardous	VB5107	3/28/2006	WMNH003740	CWM Chemical Services, Inc.
B-10	Filter Cake	Non-Hazardous	VB5107	9/18/2006	WMNH005516	CWM Chemical Services, Inc.
B-11	Filter Cake	Non-Hazardous	VB5107	9/18/2006	WMNH005516	CWM Chemical Services, Inc.
D-125	River Booms	Non-Hazardous	CS4644	9/18/2006	WMNH005516	CWM Chemical Services, Inc.
D-126	River Booms	Non-Hazardous	CS4644	9/18/2006	WMNH005516	CWM Chemical Services, Inc.
D-127	River Booms	Non-Hazardous	CS4644	9/18/2006	WMNH005516	CWM Chemical Services, Inc.

Notes:
1) D - 55 Gallon Drum
2) B - 1 Cubic Yard Box

Table 2

2006 Groundwater Treatment System Monthly Compliance Monitoring Analytical Results Former Sinclair Refinery Site (OU2)
Wellsville, New York (mg/L except where noted)

		1/4/2006		2/2/;	2/2/2006		3/6/2006		Discharas
Parameter	Influent	Between GAC	Effluent	Between GAC	Effluent	Influent	Between GAC	Effluent	Limits
Aluminum	0.1 U	NA	0.1 U	NA	0.1 U	0.108	NA	0.1 U	
Aluminum, dissolved	0.1 U	NA	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	0.1
Arsenic	0.101	NA	0.005 U	NA	0.008 U	0.114	NA	0.008 U	0.15
Chromium	0.01 U	۷V	0.01 U	NA	0.01 U	0.01 U	NA	0.01 U	0.5
Copper	0.025 U	NA	0.025 U	NA	0.025 U	0.025 U	NA	0.025 U	0.5
Iron	46.4	NA	0.148	NA	0.123	20.8	NA	0.182	4
Lead	0.0039	NA	0.003 U	NA	0.003 U	0.003 U	NA	0.003 U	0.004
Nickel	0.0652	NA	0.04 U	NA	0.04 U	0.04 U	NA	0.04 U	
Zinc	0.0285	NA	0.02 U	NA	0.02 U	0.02 U	NA	0.02 U	0.052
1,1,1-Trichloroethane	0.0058	0.00046 J	0.001 U	0.001 U	0.001 U	0.0097	0.001 U	0.001 U	0.01
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	0.001 U	0.001 U		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	0.0293	0.0036	0.0012	0.0011	0.0012	0.0276	0.0013	0.001 U	0.03
1,1-Dichloroethene	0.001 U	0.001 U	Ω	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	0.001 U	0.001 U	Ω	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Benzene	0.0995	0.001 U	0.001 U		0.001 U	0.104	0.001 U	0.001 U	0.01
Bromodichloromethane	0.001 U	0.00039 J	0.001 U		J 0.001 U	0.001 U	0.001 U	0.001 U	
Bromoform	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon tetrachloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chlorobenzene	0.00057 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroethane	0.0014	0.001 U	0.001 U	0.001 U	0.001 U	0.0012	0.001 U	0.001 U	
Chloroform	0.001 U	0.0013	0.00048 J	0.00079 J	0.000059 J	0.001 U	0.00064 J	0.001 U	
Chloromethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,2-Dichloroethene	0.107	0.0074	0.00036 J	0.0015	0.000059 J	0.101	0.00079 J	0.001 U	0.03
cis-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dibromochloromethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dichlorodifluoromethane	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	

Table 2

2006 Groundwater Treatment System Monthly Compliance Monitoring Analytical Results Former Sinclair Refinery Site (OU2) (mg/L except where noted) Wellsville, New York

		1/4/2006		2/2/:	2/2/2006		3/6/2006		Discharge
Parameter	Influent	Between GAC	Effluent	Between GAC	Effluent	Influent	Between GAC	Effluent	Limits
Dichloromethane (Methylene chloride)	0.001 U	0.001 U 0.001 U		0.001 U	0.001 U 0.001 U 0.001 U	0.001 U	0.001 U	0.001 U	
Ethyl benzene	0.0067	0.001 U 0.001 U		0.001 U	0.001 U 10.0098 0.001 U 10.001 U 10.01	0.0098	0.001 U	0.001 U	0.01
Tetrachloroethene	0.001 U	0.001 U 100.0		0.001 U	0.001 U 0.001 U 0.001 U	0.001 U	0.001 U	0.001 U	
Toluene	9900:0	0.001 U	0.001 U	0.001 U	0.001 U	0.0087 0.001 U	0.001 U	0.001 U	0.01
trans-1,2-Dichloroethene	0.0012	0.001 U	0.001 U	0.001 U	0.001 U	0.0013	0.0013 0.001 U	0.001 U	
trans-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U 100.0	0.001 U	
Trichloroethene	0.0012	0.001 U	0.001 U	0.001 U	0.001 U	0.0027 0.001 U	0.001 U	0.001 U	
Trichlorofluoromethane	0.002 ∪	0.002 U	0.002 ∪	0.002 U	0.002 ∪	0.002 U	0.002 U 0.002 U	0.002 U	
Vinyl chloride	0.0898	0.0017 J 0.001 J	0.001 J	0.00061 J	0.00061 J [0.0011 J [0.108	0.108	0.00086 J 0.002 U 0.05	0.002 U	0.05
Xylenes (total)	0.0078	0.001 U	0.001 U	0.001 U	0.001 U	0.0115	0.001 U 0.001 U	0.001 U	0.01
Cyanide			0 R		0.01 U			0.01 U	
Oil & Grease			5.1 U		5.1 U			5.1 UJ	15
Hd	9.9		7.35		7.33	6.61		7.83	6.5 - 8.5

Table 2

2006 Groundwater Treatment System Monthly Compliance Monitoring Analytical Results Former Sinclair Refinery Site (OU2) Wellsville, New York (mg/L except where noted)

		4/6/2006			5/2/2006			6/1/2006		ä
Parameter	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Discharge Limits
Aluminum	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	
Aluminum, dissolved	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	0.1 U	ΝΑ	0.1 U	0.1
Arsenic	0.0966	NA	0.008 U	0.0968	NA	U	0.0902	NA	0.008 U	0.15
Chromium	0.01 U	NA	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	0.01 U	0.5
Copper	0.025 U	NA	5 U	0.025 U	NA	0.025 U	0.025 U	NA	0.025 U	0.5
Iron	45.8	NA		46.8	NA		43.4	NA	0.1 U	4
Lead	0.003 U	NA	0.003 U	0.003 U	NA	0.003 U	0.003	NA	0.003 U	0.004
Nickel	0.04 U	NA	0.04 U	0.04 U	NA	0.04 U	0.04 U	NA	0.04 U	
	0.02 Ū	NA	0.02 U	0.02 U	NA	0.02 U	0.02 U	NA	0.02 U	0.052
1,1,1-Trichloroethane	0.0076	0.00061 J	0.001 U	0.0078	0.001 U	0.001 U	0.0083	0.0013	0.00037 J	0.01
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	0.0213	0.0032	0.001 U	0.0211	0.0013	0.001 U	0.0167	0.0042	0.0019	0.03
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	n	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	n	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	n	0.001 U	0.001 U	0.001 U	
Benzene	0.0875	0.001 U	Ω	0.102	0.001 U	0.001 U	0.0825	0.00021 J	0.001 U	0.01
Bromodichloromethane	0.001 U	0.001 U	Ы	0.001 U	0.001 U	0.001 U	0.001 U	0.0003 J	0.001 U	
Bromoform	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
oride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
le	0.00056 J	0.001 U	0.001 U	0.00064 J	0.001 U	0.001 U	0.00056 J	0.001 U	0.001 U	
Chloroethane	0.0013	0.001 UJ	0.001 UJ	0.000083 J	0.001 U	0.001 U	0.00066 J 0.001 U	0.001 U	0.001 U	
Chloroform	0.001 U	0.0012	0.001 U	0.001 U	0.00086 J	0.00021 J	0.001 U	0.0013	0.00076 J	
	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
	0.061	0.0029	0.001 U	0.0769	0.0016	Ы	0.0553	0.005	0.001 U	0.03
cis-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	Э	0.001 U	0.001 U	0.001 U	
	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	_	0.001 U	0.001 U	0.001 U	
Dichlorodifluoromethane	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	

Table 2

2006 Groundwater Treatment System Monthly Compliance Monitoring Analytical Results Former Sinclair Refinery Site (OU2)
Wellsville, New York
(mg/L except where noted)

		4/6/2006			5/2/2006			6/1/2006		Discharge
Parameter	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Limits
Dichloromethane (Methylene chloride)	0.001 U	0.001 U	0.001 U 0.001 U	ll .	0.001 U	0.001 U 0.001 U 0.001 U 0.001 U	0.001 U	0.001 U	0.001 U	
Ethyl benzene	0.0085	0.001 U	0.001 U 0.0101	0.0101	0.001 U	0.001 U	0.0075	0.001 U	0.001 U	0.01
Tetrachloroethene	0.001 U	0.001 U	0.001 U 0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Toluene	9.0000	0.001 U	0.001 U	600.0	0.001 U	0.001 U	6200'0	0.001 U	0.001 U	0.01
trans-1,2-Dichloroethene	0.00093 J 0.001 U	0.001 U	0.001 U 0.0013	0.0013	0.001 U	0.001 U	0.001	0.001 U	0.001 U	
trans-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U 0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Trichloroethene	0.00046 J	16 J 0.001 U	0.001 U	0.001 U 0.00049 J 0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Trichlorofluoromethane	0.002 U	0.002 U	0.002 U	0.002 U 0.002 U	0.002 U	0.002 ∪	0.002 U	0.002 U	0.002 U	
Vinyl chloride	0.073	0.000081	0.00081 J 0.002 U 0.0712	0.0712	0.002 U	0.002 U	0.0857	0.0015 J	0.0005 J	0.05
Xylenes (total)	600.0	0.001 U	0.001 U 0.0119	0.0119	0.001 U	0.001 U	0.012	0.001 U	0.001 U	10.0
Cyanide			0.01 U			0.01 U			0.01 U	
Oil & Grease			5.1 U			5 U			5.2 U	15
Hd	6.73		7.27	6.62		7.3	6.64		7.22	6.5 - 8.5

Table 2

2006 Groundwater Treatment System Monthly Compliance Monitoring Analytical Results Former Sinclair Refinery Site (OU2)
Wellsville, New York
(mg/L except where noted)

		7/6/2006			8/3/2006			9/6/2006		Dicohorgo
Parameter	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Limits
Aluminum	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	
Aluminum, dissolved	0.1 U	NA	0.1 U	0.1 U	۷N	0.1 U	0.1 U	NA	0.1 U	0.1
Arsenic	0.0984	NA	0.008 U	0.102	NA	0.008 U	0.117	NA	0.008 U	0.15
Chromium	0.01 U	NA	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	0.01 U	0.5
Copper	0.025 U	NA	U	0.025 U	NA	0.025 ∪	0.025 ∪	NA	0.025 ∪	0.5
Iron	44.9	NA	0.186	44.9	NA	0.1 U	48.4	NA	0.143	4
Lead	0.003	NA	0.003 U	0.003 U	NA	0.003 U	0.003 U	NA	0.003 U	0.004
Nickel	0.04 U	NA	0.04 U	0.04 U	NA	0.04 U	0.04 U	NA	0.04 U	
Zinc	0.02 U	NA	0.02 U	0.02 U	NA	0.02 U	0.02 U	NA	0.02 U	0.052
1,1,1-Trichloroethane	0.0074	0.00081 J	0.00057 J	2200'0	0.001 U	0.001 U	0.0048	0.001 U	0.001 U	0.01
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,1-Dichloroethane	0.017	0.0036	0.0026	0.0185	0.001 U	0.001 U	0.0145	0.0022	0.001 U	0.03
1,1-Dichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	0.001 U	0.001 U	n	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichloropropane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Benzene	0.091	0.0005 J	0.00029 J	0.0882	0.001 U	0.001 U	0.077	0.001 U	0.001 U	0.01
Bromodichloromethane	0.001 U	0.0004 J	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.00047 J	0.001 U	
Bromoform	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon tetrachloride	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chlorobenzene	0.00065 J	0.001 U		0.0008 J	0.001 U	0.001 U	0.00072 J	0.001 U	0.001 U	
Chloroethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chloroform	0.001 U	0.0023	0.0018	0.001 U	0.00071 J	0.001 U	0.001 U	0.0021	0.001 U	
Chloromethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
cis-1,2-Dichloroethene	0.0349	0.001	0.00083 J	0.0392	0.001 U	0.001 U	0.0109	0.0018	0.001 U	0.03
cis-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dibromochloromethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Dichlorodifluoromethane	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	

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Table 2

2006 Groundwater Treatment System Monthly Compliance Monitoring Analytical Results Former Sinclair Refinery Site (OU2)
Wellsville, New York (mg/L except where noted)

		7/6/2006			8/3/2006			9/6/2006		Discharge
Parameter	Influent	Between	Effluent	Influent	Between	Effluent	Influent	Between	Effluent	Limits
Opinida onolydata (Alabama)	- 100	Ш	1	- 100	0.00411 0.00411	0.004	7,000,0	Ш	11 100 0	
Dictribition in etrial e (Metriylerie cilioride)	اد	- 1	$\overline{}$	0.00.0		Ī	0.0027	- 1	Т	
Ethyl benzene	0.0068	0.001 U	0.001 U	0.0062	0.0062 0.001 U	0.001 U	0.0043	0.001 U	0.001 U	0.01
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U 0.0043	0.0043	0.001 U	0.001 U	0.001 U	0.001 U	
Toluene	0.0076	0.001 U	0.001 U	0.0084	0.001 U	0.001 U	0.0058	0.001 U	0.001 U	0.01
trans-1,2-Dichloroethene	0.00072 J	2 J 0.001 U	0.001 U	0.0014	0.0014 0.001 U	0.001 U	0.00058 J 0.001 U		0.001 U	
trans-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U 0.001 U	0.001 U	0.001 U 0.001 U		0.001 U	
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U 0.0015	0.0015	0.001 U	0.001 U	0.001 U	0.001 U	
Trichlorofluoromethane	0.002 U	0.002 U	0.002 U	0.002 U 0.002 U	0.002 U	0.002 ∪	0.002 U	0.002 ∪	0.002 U	
Vinyl chloride	0.0964	0.0012 J	L 7000.0	0.0958	0.0958 [0.002 U 0.002 U	0.002 U	0.0553	0.002 ∪	0.002 U	0.05
Xylenes (total)	0.0107	0.001 U	0.001 U	0.0135	0.001 U	0.001 U	0.0091	0.001 U	0.001 U	0.01
Cyanide			0.01 U			0.01 U			0.01 U	
Oil & Grease			5.1 U			5.1 U			2 N	15
Hd	6.72		7.48	6.75		7.57	2.9		7.47	6.5 - 8.5

Table 2

2006 Groundwater Treatment System Monthly Compliance Monitoring Analytical Results Former Sinclair Refinery Site (OU2)
Wellsville, New York
(mg/L except where noted)

		10/5/2006			11/1/2006			12/6/2006		O ice
Parameter	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Limits
Aluminum	0.2 U	NA	0.2 U	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	
Aluminum, dissolved	0.2 U		0.2 U	0.1 U	NA	0.1 U	0.1 U	NA	0.1 U	0.1
Arsenic	0.124		0.008 U	0.119	NA	0.008 U	0.0442	NA	0.008 U	0.15
Chromium	0.01 U	NA	0.01 U	0.01 U	NA	0.01 U	0.01 U	NA	0.01 U	0.5
Copper	0.025 ∪		D	0.025 ∪	NA	0.025 U	0.025 ∪	NA	0.025 U	0.5
Iron	46		0.1 U	48.4	NA	0.1 U	34.7	NA	0.1 U	4
Lead	0.0039	NA	0.003 U	O.003 U	NA	0.003 U	0.003 U	NA	0.003 U	0.004
Nickel	0.04 U	NA		0.04 ∪	NA		0.04 ∪		0.04 U	
	0.02 ∪		0.02 U	0.02 U	NA	0.02 U	0.02 U	NA	0.02 U	0.052
1,1,1-Trichloroethane	0.0073	0.00064 J	0.001 U	0.0029	0.00027 J	0.00025 J	0.005	0.00031 J	0.00035 J	0.01
1,1,2,2-Tetrachloroethane	0.001 U	0.001 U		0.001 U	0.001 U		0.001 U	0.001 U	0.001 U	
1,1,2-Trichloroethane	0.001 U	0.001 U		0.001 U	0.001 U		0.001 U	J	0.001 U	
1,1-Dichloroethane	0.0206			0.0191	0.0025	0.0029	0.0237	0.0029	0.0035	0.03
1,1-Dichloroethene	0.001 U		U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,2-Dichlorobenzene	0.001 U	U	Ω	0.001 U	U	0.001 U	0.001 U	U	0.001 U	
1,2-Dichloroethane	0.001 U	О	∍	0.001 U	اد	⊃	0.001 U	U	0.001 U	
	0.001 U	Ы	Ы	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,3-Dichlorobenzene	0.001 U	0.001 U	Ы	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
1,4-Dichlorobenzene	0.001 U	0.001 U	_	0.001 U	0.001 U	0.001 U	0.001 U		0.001 U	
Benzene	0.0933	0.001 U	0.001 U	0.0762	0.001 U	0.001 U	0.0758		0.001 U	0.01
Bromodichloromethane	0.001 U	0.00049 J	0.001 U	0.001 U	0.00093 J	0.001 U	0.001 U	3.	0.00022 J	
Bromoform	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Bromomethane	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Carbon tetrachloride	0.001 U	0.001 U		0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Chlorobenzene	0.00068 J	0.001 U		0.001 U	0.001 U	0.001 U	0.00059 J	0.001 U	0.001 U	
Chloroethane	0.00094 J	0.001 U		0.000055 J	0.001 U	0.001 U	0.0017	0.001 U	0.001 U	
Chloroform	0.001 U	0.0015	0.00067 J	0.001 U	0.0039	0.0011	0.001 U	0.0013	0.0013	
	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
	0.029	0.0018		0.0045	0.0012	0.001 U	0.021		0.001 U	0.03
cis-1,3-Dichloropropene	0.001 U	0.001 U		0.001 U	0.001 U	0.001 U	0.001 U	┐	0.001 U	
Dibromochloromethane	0.001 U	0.001 U		0.001 U	0.001 U	0.001 U	0.001 U		0.001 U	
Dichlorodifluoromethane	0.002 ∪	0.002 U	0.002 U	0.002 ∪	0.002 ∪	0.002 U	0.002 ∪	0.002 U	0.002 U	

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Please see page 8 for notes.

2006 Groundwater Treatment System Monthly Compliance Monitoring Analytical Results Former Sinclair Refinery Site (OU2) Wellsville, New York

(mg/L except where noted)

		10/5/2006			11/1/2006			12/6/2006		Dioborg
Parameter	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Influent	Between GAC	Effluent	Limits
Dichloromethane (Methylene chloride)	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001	0.001 U	0.001 U	0.001 U	
Ethyl benzene	0.0045	0.001 U	0.001 U	0.0031	0.001 U	0.001 U 0.0049	0.0049	0.001 U	0.001 U	0.01
Tetrachloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Toluene	0.0081	0.001 U	0.001 U 0.0045		0.001 U	0.001 U 0.0062	0.0062	0.001 U	0.001 U	0.01
trans-1,2-Dichloroethene	0.0011	0.001 U	0.001 U	0.00061 J 0.001 U	0.001 U	0.001 U	0.00094 J 0.001 U	0.001 U	0.001 U	
trans-1,3-Dichloropropene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U 0.001 U 0.001 U 0.001 U	0.001 U	0.001 U	0.001 U	
Trichloroethene	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U	
Trichlorofluoromethane	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	0.002 U	
Vinyl chloride	0.0932	0.0013 J	0.002 U	0.0335	0.002 U	0.00056 J	0.0855	0.002 U	0.00079 J	0.05
Xylenes (total)	9600:0	0.001 U	0.001 U	0.0058	0.001 U	0.001 U	0.0067	0.001 U	0.001 U	0.01
Cyanide			0.01 U			0.01 U			0 R	
Oil & Grease			5.1 U			5 U			5.1 U	15
Н	6.74		7.49	6.73		7.47	9.76		7.5	6.5 - 8.5

- 1) Influent Combines groundwater pumped from recovery wells RW-1, RW-2 and RW-3 (sample port SP-114)
 - 2) Effluent Treated water prior to discharge (sample port SP-219)
- 3) Between GAC Between the primary and secondary granular activated carbon units (sample port SP-217)
 - 4) Discharge limits are allowable daily maximum 5) Results in **BOLD** exceed discharge limits
- 6) NA Not analyzed
- 7) J Estimated Value
- 8) R Data validation rejected result
- 9) U Parameter not detected above the detection limit

Table 3

2006 Groundwater BTEX Concentrations Former Sinclair Refinery Site (OU2) Wellsville, New York (mg/L)

Location	Benzene	Ethyl benzene	Toluene	Xylenes (total)	Total BTEX	
Location	Delizene	Luiyi belizelle	roluenc	Ayleries (total)	TOWN BYEN	
1	0.005		IA 7	10	NA	
MCL1	0.005	1	0.7			
AWQS ²	0.001	0.005	0.005	0.005 ³	NA	
		Nort	thern Area			
MW-10	0.00062 J	0.001 U	0.001 U	0.001 U	0.00062	
MW-11	0.001 U	0.001 U	0.001 U	0.001 U	0	
MW-69A	0.0000	0.00054 J	0.0004 J	0.001 U	0.05784	
MW-78	0.004	0.001 U	0.001 U	0.001 U	0.004	
		MV	/-70 Area			
MW-70		0.018	0.0405	0.0776	0.1475	
OW-01 0.00048 J 0.0027 0.0016 0.04418						
OW-03	Clare :	0.0083	0.022	0.0524	0.0906	
		Cer	ntral Area			
MW-09	0.00058 J	0.001 U	0.001 U	0.001 U	0.00058	
MW-71	0.001 U	0.001 U	0.001 U	0.001 U	0	
OW-04	0.001 U	0.001 U	0.001 U	0.001 U	0	
		Sout	hern Area			
MW-07	0.0033	0.00034 J	0.0023	0.0034	0.00934	
MW-55		0.0491	0.0117	0.0482	0.1374	
MW-96	0.0016	0.001 U	0.00031 J	0.001 U	0.00191	

Notes:

- 1) Groundwater sampling conducted between June 13 and 21, 2006.
- 2) EPA 8260 Analysis with Benzene, Toluene, Ethylbenzene and Xylenes (total) reported.
- 3) 1 Maximum Contaminate Level, National Primary Drinking Water Regulations (40 CFR 141.11-141.16)
- 4) ² New York State Ambient Water Quality Standards, Class GA Groundwater (NYCRR 700-706, TOG 1.1.1)
- 5) 3 New York State Xylene AWQS is for each isomer, results are for Total Xylene
- 6) NA Not Applicable
- 7) ND Not Detected
- 8) U Analyte not detected at detection limit shown
- 9) J Concentration value is approximate

Yellow shaded values exceed New York State Ambient Water Quality Standards (AWQS), Class GA Groundwater (NYCRR 700-706, TOGs 1.1.1)

Table 4

2006 Groundwater Chlorinated VOC Concentrations Former Sinclair Refinery Site (OU2) Wellsville, New York (mg/L)

Location	cis-1,2-Dichloroethene	Vinyl chloride	
MCL ¹	0.07	0.002	
AWQS ²	0.005	0.002	
Northern Area			

Northern Area

MW-10	0.001 U	0.001 U
MW-69A	0.0037	

- 1) Groundwater sampling conducted between June 13 and 21, 2006.
- 2) EPA 8260 Analysis with cis-1,2-Dichloroethene and Vinyl chloride reported.
- 3) ¹ Maximum Contaminate Level, National Primary Drinking Water Regulations (40 CFR 141.11-141.16)
- 4) ² New York State Ambient Water Quality Standards, Class GA Groundwater (NYCRR 700-706, TOG 1.1.1)
- 5) U Analyte not detected at detection limit shown



Table 5

2006 Groundwater Semi-Volatile Organic Compound Concentrations Former Sinclair Refinery Site (OU2) Wellsville, New York (mg/L)

Location	2-Aminophenol	Aniline	Azobenzene	Azoxybenzene	Nitrobenzene	Nitrosobenzene
2004.011	EDUCATION 2 ANTINOPHONON PARAMETER PARAMETER INCOMPRESENT					111111111111111111111111111111111111111
MCL ¹	NA	NA	NA	NA	NA	
AWQS ²	0.001	0.005	0.005	NA	0.0004	
Northern Area						
MW-10	0.021 U	0.0021 UJ	0.0052 U	0.0052 U	0.0021 U	ND ³
	MW-70 Area					
MW-70	0.02 U	7.69	0.005 U	0.005 U	3.13	ND ³
OW-01	0.02 U	0.002 U	0.005 U	0.005 U	0.002 U	ND ³
OW-03	0.02 U	4.2	0.005 U	0.005 U	12.3	ND ³

Notes:

- 1) Groundwater sampling conducted between June 13 and 21, 2006.
- 2) EPA 8270 Analysis with 2-Aminophenol, Aniline, Azobenzene, Azoxybenzene and
- 3) 1 Maximum Contaminate Level,
- 4) 2 New York State Ambient Water
- 5) 3 Nitrosobenzene not detected as part of volatile library search
- 6) U Analyte not detected at detection limit shown
- 7) NA Not Applicable

Shaded values exceed New York State Ambient Water Quality Standards (AWQS), Class GA Groundwater (NYCRR 700-706, TOGs 1.1.1)

Table 6

2006 Groundwater Arsenic Concentrations Former Sinclair Refinery Site (OU2) Wellsville, New York (mg/L)

Location	Arsenic
MCL ¹	0.010
AWQS ²	0.025

Northern Area

MW-10	
MW-11	0.07.77
MW-69A	
MW-78	(A) 是

MW-70 Area

MW-70	
OW-01	Picol
OW-03	0.022

Central Area

MW-71	0.008 U
MW-09	0.011
OW-04	TO COMPANY

Southern Area

MW-07	0.0168
MW-55	
MW-96	Wiley Agent

Notes:

- 1) Groundwater sampling conducted between June 13 and 21, 2006.
- 2) EPA 6010 Analysis with Total Arsenic reported.
- 3) ¹ Maximum Contaminate Level, National Primary Drinking Water Regulations (40 CFR 141.11-141.16)
- 4) Arsenic MCL lowered from 0.05 mg/L to 0.01 mg/L.
- 5) ² New York State Ambient Water Quality Standards, Class GA Groundwater (NYCRR 700-706, TOG 1.1.1)
- 6) U Analyte not detected at detection limit shown

Yellow shaded values exceed Maximum Contaminant Levels (MCL), National Primary Drinking Water Regulations (40 CFR 141.11-141.16)

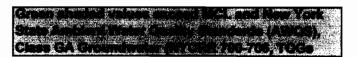


Table 7

2006 Groundwater Sampling Equipment Rinsate Blank Concentrations Former Sinclair Refinery Site (OU2) Wellsville, New York (mg/L)

Parameter	EB1-0606 6/13/2006	EB2-0606 6/21/2006	EB3-0606 6/15/2006
		!	
Benzene	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.001 U	0.001 U	NA
Ethyl benzene	0.001 U	0.001 U	0.001 U
Toluene	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.001 U	0.001 U	NA
Xylenes (total)	0.001 U	0.001 U	0.001 U
2-Aminophenol	NA	0.02 U	0.02 U
Aniline	NA	0.002 UJ	0.002 U
Azobenzene	NA	0.005 U	0.005 U
Azoxybenzene	NA	0.005 U	0.005 U
Nitrobenzene	NA	0.002 U	0.002 U
Arsenic	0.008 U	0.008 U	0.008 U

- 1) EB1-0606 collected by pumping laboratory grade water through bladder pump and tubing; associated with samples collected from MW-9, MW-55 and MW-69A.
- 2) EB2-0606 collected by pumping distilled water through bladder pump and tubing; associated with samples collected from MW-96, MW-7, MW-71, MW-10 and OW-4
- 3) EB3-0606 collected by pumping distilled water through the grundfus pump and tubing; associated with samples collected from MW70, OW-1 and OW-3.
- 4) U Analyte not detected at detection limit shown.
- 5) J Concentration value is approximate.
- 6) NA Not analyzed.

Table 8

2006 Groundwater Field Duplicate Sample Comparison Former Sinclair Refinery Site (OU2) Wellsville, New York (mg/L)

Parameter OW3-0606 DUP1-0606

Volatile Organic Compounds

Benzene	0.0079	0.0078
Ethyl benzene	0.0083	0.0085
Toluene	0.022	0.0217
Xylenes (total)	0.0524	0.0529

Semi-Volatile Organic Compounds

2-Aminophenol	0.02 U	0.02 U
Aniline	4.2	4.85
Azobenzene	0.005 U	0.005 U
Azoxybenzene	0.005 U	0.005 U
Nitrobenzene	12.3	15.2

Metals

Arsenic	0.022	0.0218
Arsenic	10.022	10.0210

- 1) U Analyte not detected at detection limit shown
- 2) J Concentration value is approximate

2006 Groundwater Elevations Former Sinclair Refinery Site (OU2) Wellsville, New York

WELL	Depth to Water (ft)	Depth to LNAPL (ft)	Well Measuring Point Elevation (ft amsl ¹)	Water Table Elevation (ft amsl ¹)	Comment
MW-07	12.42		1488.00	1475.58	Installed 1 18" sock
MW-09	12.79		1486.88	1474.09	Trace of Iron
MW-10	15.04		1482.67	1467.63	
MW-11	13.95		1482.08	1468.13	Trace of Iron
MW-55	10.21		1490.13	1479.92	
MW-69A	15.31		1482.60	1467.29	
MW-70	13.75		1481.55	1467.80	Trace of Iron
MW-71	14.04		1485.15	1471.11	
MW-78	15.60		1482.19	1466.59	
MW-96	12.64		1487.36	1474.72	
OW-01	16.98		1481.30	1464.32	
OW-03	15.17	15.16	1483.03	1467.86	Installed 2 18" socks
OW-04	13.68		1485.33	1471.65	

- 1) ND LNAPL not detected with interface probe
- 2) Water levels measured June 13, 2006 prior to commencing well purging and sampling activities
- 3) 1 feet above mean sea level (NGVD 29, U.S. Survey Feet)

2006 LNAPL Measurements and Removal Former Sinclair Refinery Site (OU-2) Wellsville, New York

Sock LNAPL Approximate LNAPL Saturation (in) Removed (oz)	
Sock LNAPL App Saturation (in)	
Comment	
Apparent LNAPL Thickness (ft)	111111
o Depth to ft) Water (ft)	
Depth to De LNAPL (ft) Wa	
Date	

	1.4	
	1.5"	
MW-7	Removed 1 18" sock and installed 1 18" sock	
	0.01	
	12.55	
	12.54	
	6/20/2006	

				OW-3		
6/15/2006	ΨZ	ΣZ	ΣZ	Removed 2 18" socks and installed 2 18" socks	2"	3.8
				8-WO		
2/2/2006	7.42	69.7	0.27	Removed 4 18" socks and installed 4 18" socks	8"	30.2

_			MW.75				
	0.0	0	no evidence of LNAPL.)	MN	8.07	ΝM	2/16/2006
			Removed 4 18" socks (staining visible on sock but				

44/4/2006	6.04	808	CUU	Inchalled 1.18" sook		
0007/1/1	0.34	0.30	0.02	III Stalled 1 10 sock		
11/21/2006	7.28	7.29	0.01	Removed 1 18" sock	6	8.5

		4.7		0.0
		5"		.0
MW-85	Installed 1 18" sock	Removed 1 18" sock	Installed 1 18" sock	Removed 1 18" sock (little to no trace of LNAPL)
	NN	0.01	0.05	MN
	WN	1.86	1.95	2.02
	2.91	1.85	1.9	MN
	2/2/2006	2/2/2006	11/1/2006	11/21/2006

				MW-86		
/2/2006	Σ	6.64	ΣN	Removed 1 18" sock (no product tone)	5"	4.7
/1/2006	5.9	6.54	0.64	Installed 1 18" sock		
/21/2006	6.62	6.64	0.02	Removed 1 18" sock	18"	17
				2006 Total LNAPL Removed (oz)	Removed (oz):	70.4

Notes:

The approximate quantities of LNAPL removed are based on the length of sock saturation and the manufacturers information indicates that 18" sock absorbs 17oz of NAPL.

Example: Four fully saturated 18" socks (4x17oz = 68oz NAPL)

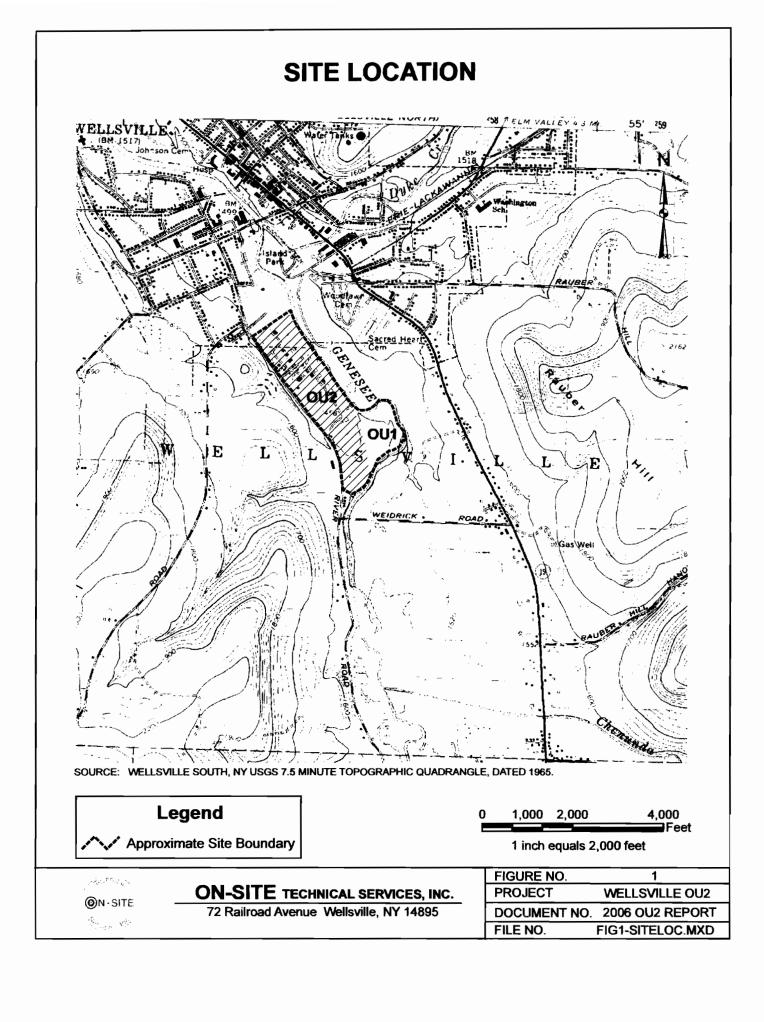
NM -- Not measured

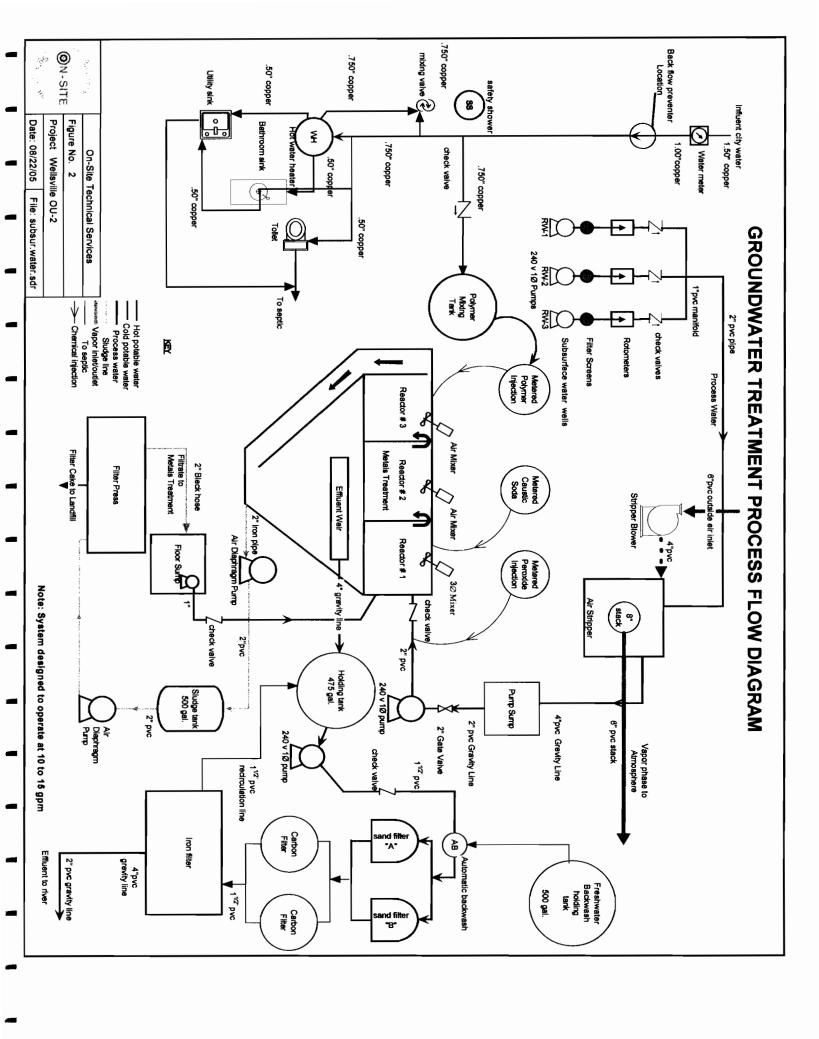
Table 11

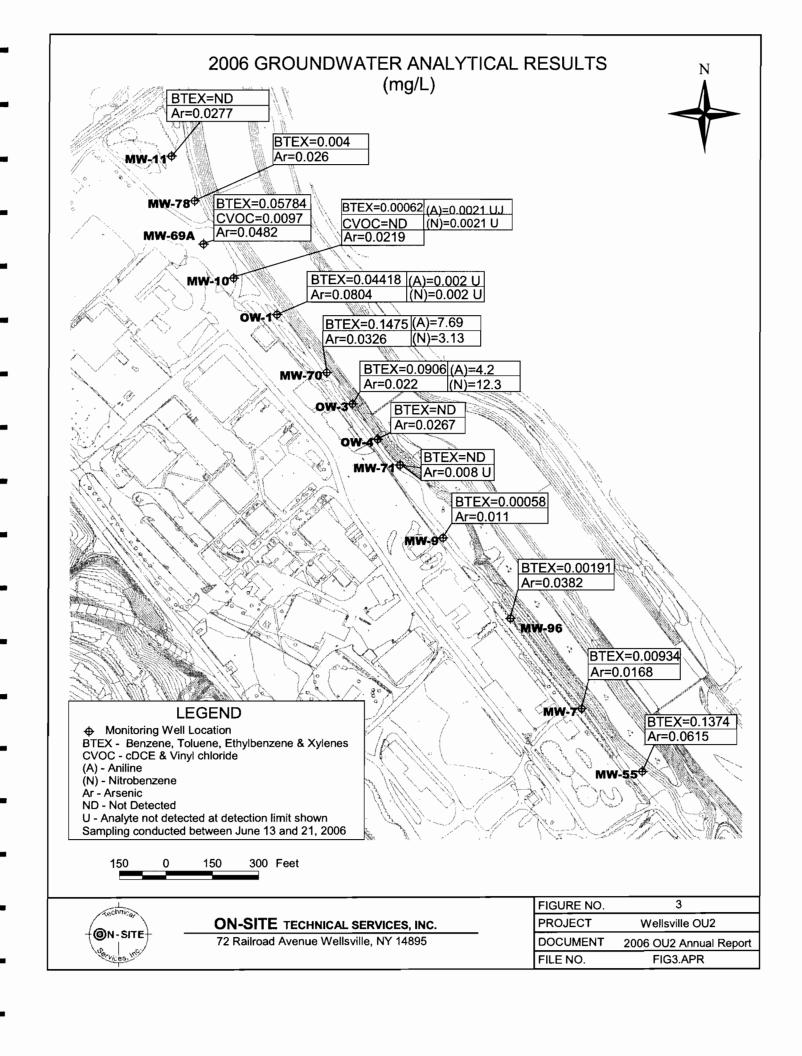
2006 Groundwater Geochemical Parameters Former Sinclair Refinery Site (OU-2) Wellsville, New York

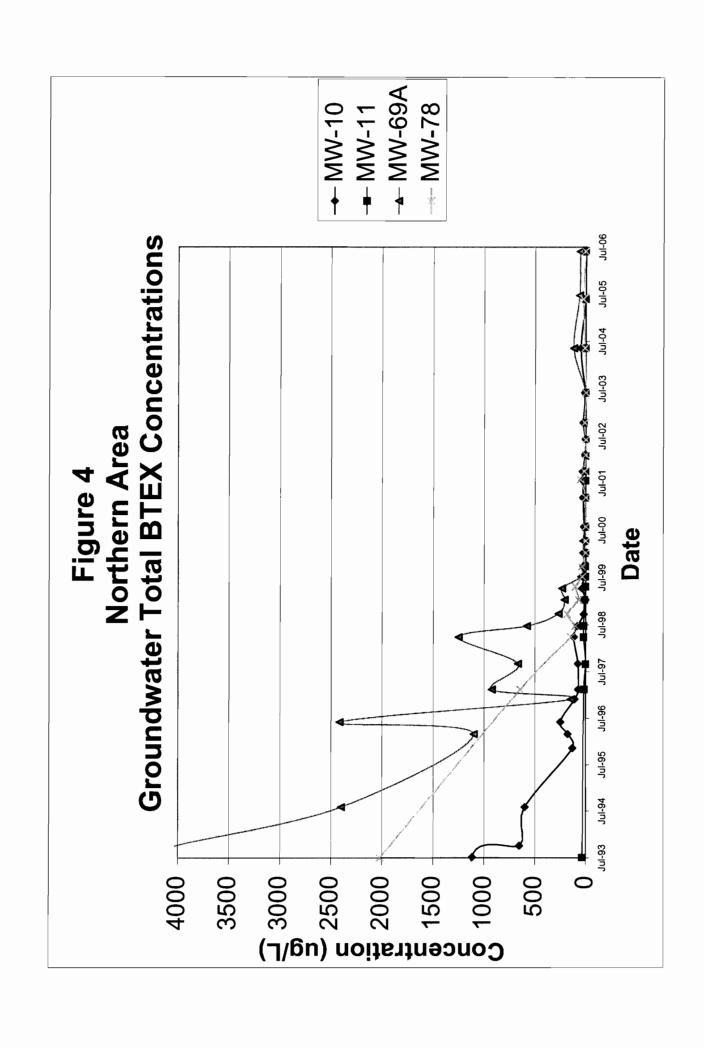
Date PH (SU) Conductivity (micro siemens) 6/20/2006 6.36 459 6/21/2006 6.19 840 6/13/2006 6.19 840 6/13/2006 6.76 391 A 6/13/2006 6.27 742 A 6/13/2006 6.27 742 A 6/13/2006 6.27 742 6/13/2006 6.24 537 6/14/2006 6.24 537 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/15/2006 6.08 946					Parameter	er		
6/20/2006 6.36 459 6/13/2006 6.1 1611 6/13/2006 6.19 840 6/14/2006 6.3 292 6/13/2006 6.76 391 6/13/2006 6.27 742 6/15/2006 6.52 1071 6/21/2006 6.03 897 6/20/2006 5.81 537 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946	Well	Date	(NS) Hd	Conductivity (micro siemens)	Turbidity (NTU) DO (mg/L)	DO (mg/L)	Temperature (°C)	ORP (mV)
6/13/2006 6.1 1611 6/21/2006 6.19 840 6/14/2006 6.3 292 6/13/2006 6.76 391 6/13/2006 6.27 742 6/15/2006 6.52 1071 6/21/2006 6.03 897 6/20/2006 5.81 537 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946		/20/2006	6.36	459	3.07	1.01	16.44	-100.4
6/21/2006 6.19 840 6/14/2006 6.3 292 6/13/2006 6.76 391 6/13/2006 6.27 742 6/15/2006 6.52 1071 6/21/2006 6.03 897 6/20/2006 5.81 534 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946	Н	/13/2006	6.1	1611	31.1	1.49	15.09	-104.6
6/14/2006 6.3 292 6/13/2006 6.76 391 6/13/2006 6.27 742 6/15/2006 6.52 1071 6/21/2006 6.24 537 6/20/2006 5.81 534 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946	\vdash	/21/2006	6.19	840	3.32	0.75	14.5	-10.2
6/13/2006 6.76 391 6/13/2006 6.27 742 6/15/2006 6.52 1071 6/21/2006 6.03 897 6/20/2006 6.24 537 6/20/2006 5.81 534 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946	\vdash	/14/2006	6.3	292	0.36	0.41	10.56	-57.2
6/13/2006 6.27 742 6/15/2006 6.52 1071 6/21/2006 6.03 897 6/14/2006 6.24 537 6/20/2006 5.81 534 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946	_	/13/2006	92.9	391	6.81	0.51	24.98	-130.7
6/15/2006 6.52 1071 6/21/2006 6.03 897 6/14/2006 6.24 537 6/20/2006 5.81 534 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946	_	/13/2006		742	1.97	0.28	21.75	-73.1
6/21/2006 6.03 897 6/14/2006 6.24 537 6/20/2006 5.81 534 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946	-	/15/2006		1071	3.12	0.55	14.11	8.66-
6/14/2006 6.24 537 6/20/2006 5.81 534 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946		/21/2006		897	1.81	0.61	11.82	-22.5
6/20/2006 5.81 534 6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946		/14/2006		537	0.52	0.22	13.19	-62.6
6/15/2006 6.89 850 6/15/2006 6.48 1007 6/21/2006 6.08 946		/20/2006	5.81	534	1.00	85.0	14.29	-70.1
6/15/2006 6.48 1007 6/21/2006 6.08 946		/15/2006	68.9	850	1.23	0.24	18.35	-118.1
6/21/2006 6.08 946		/15/2006	6.48	1007	3.32	1.08	14.25	-78.7
	OW-4 6	/21/2006	80.9	946	6.57	1.75	16.49	-20.2

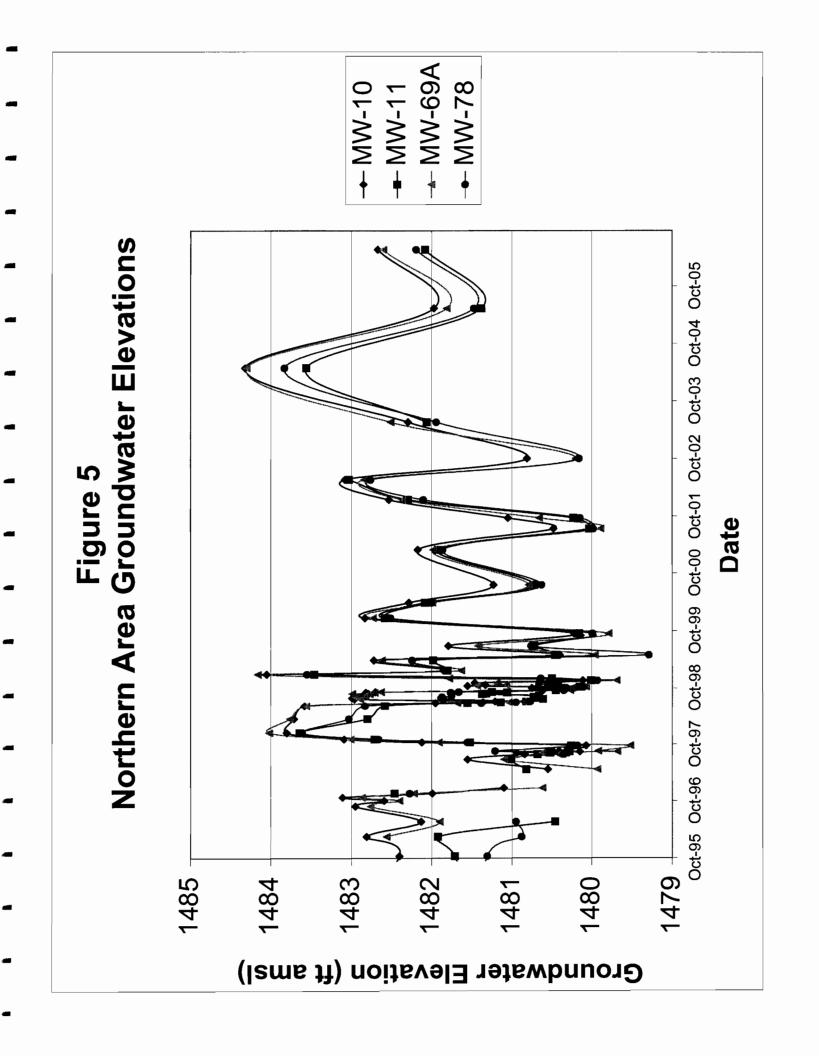
¹⁾ pH, Conductivity, DO, Temperature and ORP measured with properly calibrated YSI 556 MPS water quality meter 2) Turbidity measured with properly calibrated Hach 2100P turbidity meter

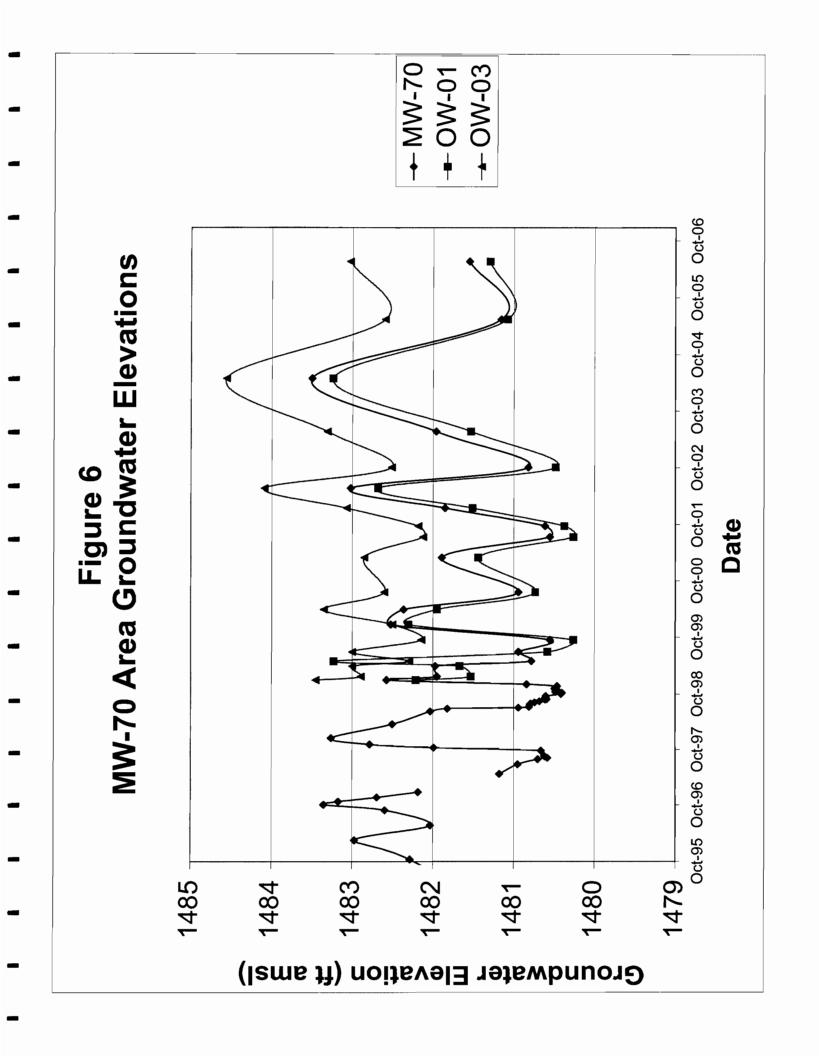


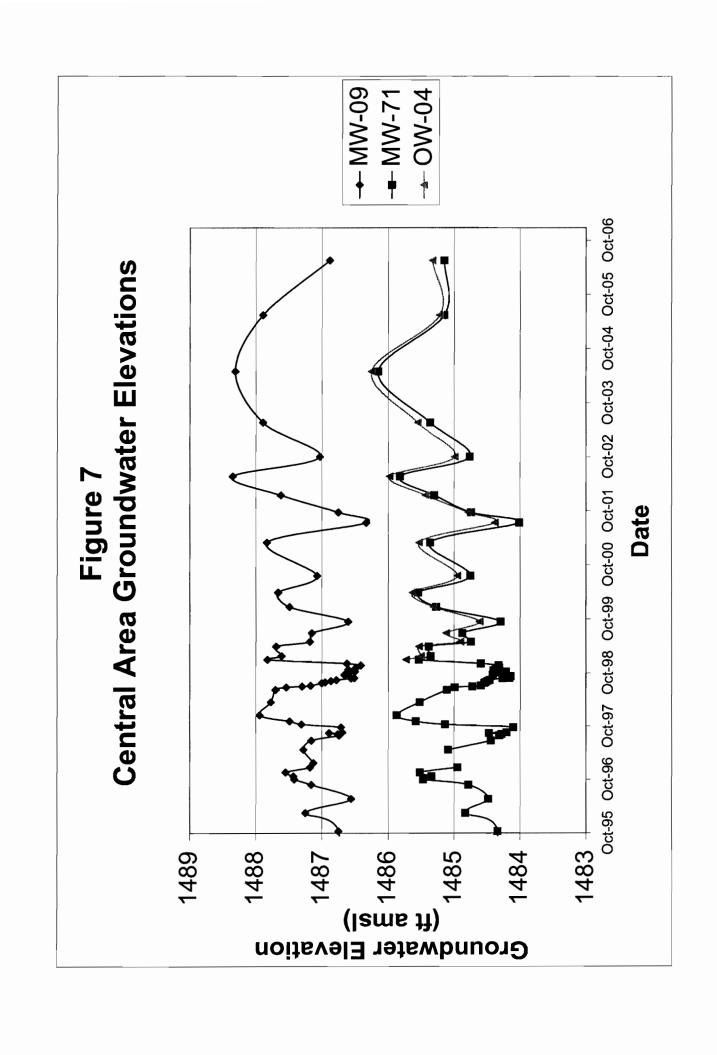


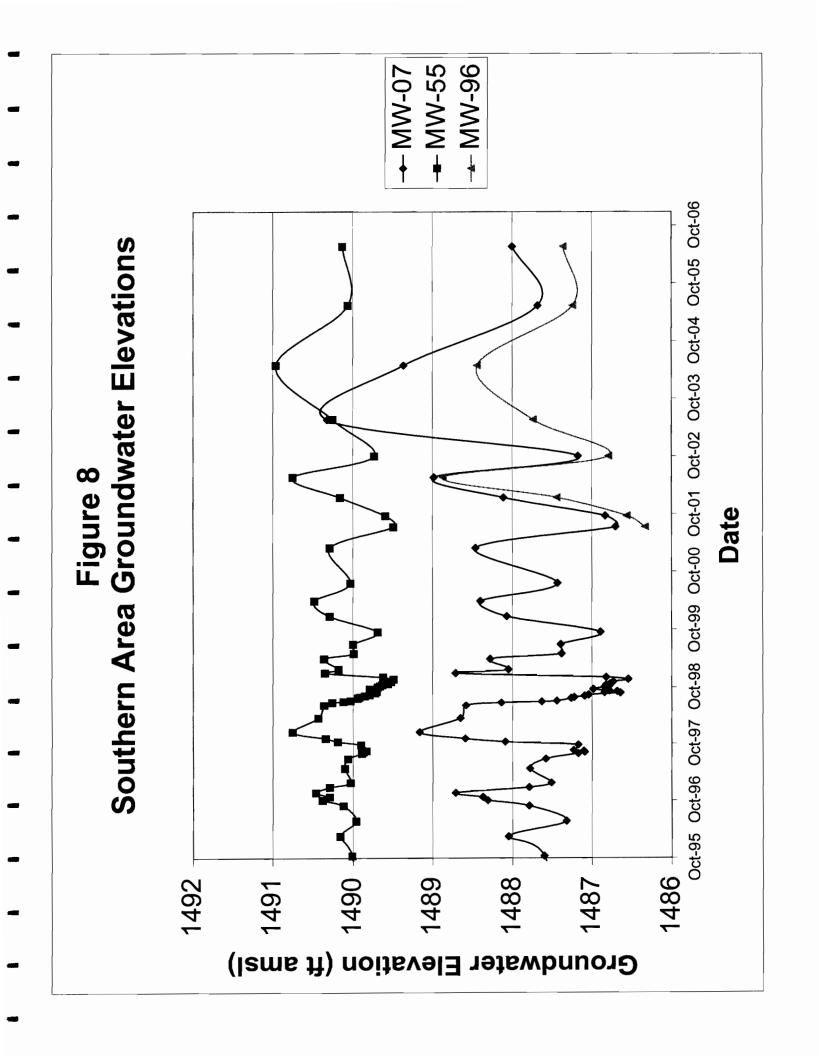












DATA USABILITY SUMMARY REPORT FOR JANUARY 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on January 4, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on January 5, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J19642) was received by On-Site within 20 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in laboratory data resulting from data validation. Therefore, the nondetected cyanide result

for sample SP219-0106 was considered unusable and qualified "R" in the "Valid Code" column as a result from data validation.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- · Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS recoveries and LCS recoveries.

All MS recoveries were compliant and within QC acceptance ranges with the exception of the extremely low recovery for cyanide (25.2%R; QC limit 75-125%R). As a result, the nondetected cyanide result for sample SP219-0106 was considered unusable and qualified "R".

All LCS recoveries were compliant and within QC acceptance ranges with the exception of the high recovery for cyanide (111.6%R; QC limit 90-110%R). Since cyanide was not detected, validation qualification of the samples was not required.

Therefore, the inorganic data and the oil and grease data presented by Accutest were 95.2% complete with all data considered usable and valid.

Lead Total	7439-92-1	FPA 200 7	119642-1 1-Fab-06	1-Fab-06	04- Jan-06	SP114	0106	3.0	3 10/
	7000				3	5 (3	9 1	
	100-41-4	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	6.7	1 ug/l
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ •	1 ug/l
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ •	1.ug/l
1,4-Dichlorobenzene	106-46-7	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	⊃ •	1 ug/l
1,2-Dichloroethane	107-06-2	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ 0	1 ug/l
Toluene	108-88-3	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	6.6	1 ug/l
Chlorobenzerie	108-90-7	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	0.57 J	1 ug/l
Dibromochloromethane	124-48-1	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	n o	1 ug/l
Tetrachloroethene	127-18-4	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ •	1 ug/l
Xylenes (total)	1330-20-7	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	7.8	1 ug/l
cis-1,2-Dichloroethene	156-59-2	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	107	1 ug/l
trans-1,2-Dichloroethene	156-60-5	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	1.2	1 ug/l
1,3-Dichlorobenzene	541-73-1	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	0	1 ug//
Carbon tetrachloride	56-23-5	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	0.0	1 ug/l
Chloroform	67-66-3	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ o	1 ug/l
Benzene	71-43-2	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	99.5	1 ug/l
1,1,1-Trichloroethane	71-55-6	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	5.8	1 ug/l
Methyl bromide	74-83-9	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106) 0	1 ⊔g/l
Chloromethane	74-87-3	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	<u>∩</u>	1 ug/l
Chloroethane	75-00-3	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	1.4	1 ug/l
Vinyl chloride	75-01-4	EPA 624	J19642-1	1-Feb-06	04~Jan-06	SP114	0106	89.8	2 ug/l
Methylene chloride	75-09-2	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0108	⊃ •	1 ug/l
Bromoform	75-25-2	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ •	1 ug/l
Bromodichloromethane	75-27-4	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ •	1 ug/l
1,1-Dichloroethane	75-34-3	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	29.3	1 ug/l
1,1-Dichloroethene	75-35-4	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	Ω°	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	<u>∩</u>	2 ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ •	2.ug/l
1,2-Dichloropropane	78-87-5	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	<u>∩</u>	1 ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	<u>∩</u>	1.ug/l
Trichloroethene	79-01-6	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0108	1.2	1 ug/l
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0108	⊃ •	1 ug/l
1,2-Dichlorobenzene	95-50-1	EPA 624	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	<u></u>	1 ng/l
Aluminum, Total	7429-90-5	EPA 200.7	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ •	100 ng/l
iron, Total	7439-89-6	EPA 200.7	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	46400	100 · ug/l
Nickel, Total	7440-02-0	EPA 200.7	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	65.2	40 ug/l
Arsenic, Total	7440-38-2	EPA 200.7	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	101	5 ug/l
Chromium, Total	7440-47-3	EPA 200.7	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	∩ °	10: ug/l
Copper, Total	7440-50-8	EPA 200.7	J19642-1	1-Feb-06	04-Jan-06	SP114	0106	<u>∩</u>	25 ug/l
7)=- Takel	7440 66 6	7 000 400	110642-1	בר אבר מכ	04. lan-06	SP114	0108	28.5	F-1.00

Analyte	Cessoo	Method	Labsampid	ø	Date Sampled	Sample	Location	Result Code	PL Units Valid Result Valid Code
Ethylbenzene	100-41-4	EPA 624	J19642-2		04-Jan-06	SP217	0106	<u></u> 0	_
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	∩ o	1 ug/l
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106) 0	1 ug/l
,4-Dichlorobenzene	106-46-7	EPA 624	J19642-2	1-Feb-06	04~Jan-06	SP217	0106	∩ °	1 ug/l
1,2-Dichloroethane	107-06-2	EPA 624	J19642-2	1-Feb-06	04~Jan-06	SP217	0106	O o	1 ug/l
Toluene	108-88-3	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	Ω°	1 ug/l
Chlorobenzene	108-90-7	EPA 624	J19642-2	1-Feb-06	04~Jan-06	SP217	0106	0.0	1 ug/l
Dibromochloromethane	124-48-1	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	0 0	1 ug/l
etrachloroethene	127-18-4	EPA 624	J19642-2	1-Feb-06	04~Jan-06	SP217	0106	O o	1 ug/l
Xylenes (total)	1330-20-7	EPA 624	J19642-2	1-Feb-06	04~Jan-06	SP217	0106	0.0	1 ug/l
cis-1,2-Dichloroethene	156-59-2	EPA 624	J19642-2	1-Feb-06	04~Jan-06	SP217	0106	7.4	1 ug/l
trans-1,2-Dichloroethene	156-60-5	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	Ω°O	1 ug/l
,3-Dichlorobenzene	541-73-1	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	٥n	1 ug/l
Carbon tetrachloride	56-23-5	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	O o	1 ug/l
Chloroform	67-66-3	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	13	1 ug/l
Benzene	71-43-2	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	0 0	1 ug/l
,1,1-Trichloroethane	71-55-6	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	0.46 J	1 ug/l
Methyl bromide	74-83-9	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	∩ 0	1 ug/l
Chloromethane	74-87-3	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	n o	1 ug/l
Chloroethane	75-00-3	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	0.0	1 ug/l
Vinyl chloride	75-01-4	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	1.7 J	2 ug/l
Methylene chloride	75-09-2	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	O o	1 ug/l
Bromoform	75-25-2	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	O o	1 ug/l
Bromodichloromethane	75-27-4	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	0.39 J	1 ug/l
I,1-Dichloroethane	75-34-3	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	3.6	1 ug/l
I,1-Dichloroethene	75-35-4	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	∩ °	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	0 0	2 ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	<u>∩</u> 0	2 ug/l
I,2-Dichloropropane	78-87-5	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0108	n o	1 ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	0.0	1 ug/l
Trichloroethene	79-01-6	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	∩ 0	1 ug/l
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	∩ o	1 ug/l
1,2-Dichlorobenzene	95-50-1	EPA 624	J19642-2	1-Feb-06	04-Jan-06	SP217	0106	⊃ °	1 ug/l

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Lead, Total	7439-92-1	EPA 200.7	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	∩ °	3.ug/l	
H		EPA 150.1	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	7.35	ns.	
Oil And Grease		EPA 1664A	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	O 0	5.1 mg/l	
Cyanide	57-12-5	EPA 335.3	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	0 0	0.01 mg/l	۳
Ethylbenzene	100-41-4	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	∩ °	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	∩ o	1 ug/l	
trans-1,3-Dichloropropene	10061-02-6	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	∩ o	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J19642-3	1-Feb-08	04-Jan-06	SP219	0106	0	1 ug/l	
Toluene	108-88-3	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	0 0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	00	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106) 0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	00	1 ug/l	
cis-1,2-Dichloroethene	158-59-2	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	0.36.J	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J19642-3	1-Feb-06	04~Jan-06	SP219	0106	0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J19642-3	1-Feb-06	04~Jan-06	SP219	0106	0 0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	00	1 ug/l	
Chloraform	67-66-3	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	0.48 J	1 ug/l	
Benzene	71-43-2	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J19642-3	1-Feb-06	04~Jan-06	SP219	0106	0 0	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	⊃ °	1 ug/l	
Chloromethane	74-87-3	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	∩.°	1 ug/l	
Chloroethane	75-00-3	EPA 624	J19642-3	1-Feb-08	04-Jan-06	SP219	0106	0.0	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	-	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	o O	1.ug/l	
Bromoform	75-25-2	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	O.	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	O.o	1.ug/	
1,1-Dichloroethane	75-34-3	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	1.2	1, ug/	
1,1-Dichloroethene	75-35-4	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	n o	1.ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J19642-3	1-Feb-06	04~Jan-06	SP219	0106	∩ 0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	<u>0</u>	2.ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	O.o	1.ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0108	0	1.ug/l	
Trichloroethene	79-01-6	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	O.O	1/gu-1	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	∩ o	1'gu	
1,2-Dichlorobenzene	95-50-1	EPA 624	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	∩ 0	1 ug/l	
Aluminum, Total	7429-90-5	EPA 200.7	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	0	100 ug/l	
Iron, Total	7439-89-6	EPA 200.7	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	148	100 ng/l	
Nickel, Total	7440-02-0	EPA 200.7	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	<u>ာ</u>	40 ug/l	
Arsenic, Total	7440-38-2	EPA 200.7	J19642-3	1-Feb-06	04-Jan-06	SP219	0106	റം	5 ug/l	
Chromium, Total	7440-47-3	EPA 200.7	J19642-3	1-Feb-06	04~Jan-06	SP219	0106	∩ o	10 ng/l	
Copper, Total	7440-50-8	EPA 200.7	J19642-3	1-Feb-06	04~Jan-06	SP219	0106	O o	25 ug/l	

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*	Zinc, Total 7440-66-6 EPA 200.7 J1
▼.	Zinc, Total

Ethylbenzene	100-41-4	EPA 624	J19642-4		04-Jan-06	ž	TRIP BLANK) 0	1 ug/l
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J19642-4	1-Feb-06	04-Jan-06	¥	TRIP BLANK	0	1 ug/l
trans-1,3-Dichloropropene	10061-02-6	EPA 624	J19642-4	1-Feb-06	04-Jan-06	¥	TRIP BLANK	00	1'gu/
1,4-Dichlorobenzene	106-46-7	EPA 624	J19642-4	1-Feb-06	04-Jan-06	¥	TRIP BLANK	0	1 Jug/1
1,2-Dichloroethane	107-06-2	EPA 624	J19642-4	1-Feb-06	04~Jan-06	¥	TRIP BLANK	0	1 ug/l
Toluene	108-88-3	EPA 624	J19642-4	1-Feb-06	04~Jan-06	¥	TRIP BLANK	0	1 ug/l
Chlorobenzene	108-90-7	EPA 624	J19642-4	1-Feb-06	04-Jan-06	¥	TRIP BLANK	0.0	1 ug/l
Dibromochloromethane	124-48-1	EPA 624	J19642-4	1-Feb-06	04-Jan-06	š	TRIP BLANK	0	1.00/
Tetrachloroethene	127-18-4	EPA 624	J19642-4	1-Feb-06	04-Jan-06	ž	TRIP BLANK	0	1 ug/l
Xylenes (total)	1330-20-7	EPA 624	J19642-4	1-Feb-06	04-Jan-06		TRIP BLANK	⊃	1.ug/l
cis-1,2-Dichloroethene	156-59-2	EPA 624	J19642-4	1-Feb-06	04-Jan-06	Š	TRIP BLANK	∩ °	1 ug/l
trans-1,2-Dichloroethene	156-60-5	EPA 624	J19642-4	1-Feb-06	04-Jan-06		TRIP BLANK	∩ 0	1 ug/l
1,3-Dichlorobenzene	541-73-1	EPA 624	J19642-4	1-Feb-06	04-Jan-06	¥	TRIP BLANK	∩	1 ug/l
Carbon tetrachloride	56-23-5	EPA 624	J19642-4	1-Feb-06	04-Jan-06	Š	TRIP BLANK	0	1 ug/l
Chloroform	67-66-3	EPA 624	J19642-4	1-Feb-06	04-Jan-06	Š	TRIP BLANK	0	1 ug/l
Benzene	71-43-2	EPA 624	J19642-4	1-Feb-06	04-Jan-06	Š	TRIP BLANK	0.0	1 ug/l
1,1,1-Trichloroethane	71-55-6	EPA 624	J19642-4	1-Feb-06	04-Jan-06	ž	TRIP BLANK	0	1 ug/l
Methyl bromide	74-83-9	EPA 624	J19642-4	1-Feb-06	04-Jan-06	ž	TRIP BLANK	0	1 ug/l
Chloromethane	74-87-3	EPA 624	J19642-4	1-Feb-06	04-Jan-06	ž	TRIP BLANK	00	1 ug/l
Chloroethane	75-00-3	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	<u></u>	1 ug/l
Vinyl chloride	75-01-4	EPA 624	J19642-4	1-Feb-06	04~Jan-06	Š	TRIP BLANK	⊃ 0	2 ug/l
Methylene chloride	75-09-2	EPA 624	J19642-4	1-Feb-06	04-Jan-06	Š	TRIP BLANK	0.0	1 ug/l
Bromoform	75-25-2	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	0	1 ug/l
Bromodichloromethane	75-27-4	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	0	1 ug/l
1,1-Dichloroethane	75-34-3	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	0	1 ug/l
1,1-Dichloroethene	75-35-4	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	0	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	0	2 ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	<u></u>	2 ug/l
1,2-Dichloropropane	78-87-5	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	<u></u>	1 ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J19642-4	1-Feb-06	04-Jan-06	Š	TRIP BLANK	<u>_</u>	1.ug/l
Trichloroethene	79-01-6	EPA 624	J19642-4	1-Feb-06	04-Jan-06	¥	TRIP BLANK	0	1 ug/l
1,1,2,2-Tetrachioroethane	79-34-5	EPA 624	J19642-4	1-Feb-06	04~Jan-06	ž	TRIP BLANK	0	1, ug/l
1,2-Dichlorobenzene	95-50-1	EPA 624	J19642-4	1-Feb-06	04-Jan-06	ž	TRIP BLANK	0.0	1.ug/l
Aluminum, Dissolved	7429-90-5	EPA 200.7	J19642-1F	1-Feb-06	04-Jan-06	SP114	0106	0	100:ug/l
Aliminim Dissolved	7429-90-5	FPA 200 7	110642.3E	400	90 10 10				

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DATA USABILITY SUMMARY REPORT FOR FEBRUARY 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on February 2, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on February 3, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J21855) was received by On-Site within 20 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" – estimated at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in laboratory data resulting from data validation. However, the laboratory data did not

require qualification resulting from data validation for these samples. Therefore, there were no changes to the laboratory data presented in the attached table.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

<u> </u>			02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219	0206 0206 0206 0206 0206 0206 0206 0206		3 ug/l 0 01 mg/l 100 ug/l 100 ug/l 8 ug/l 10 ug/l 25 ug/l	
<u>o</u>			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219	0206 0206 0206 0206 0206 0206 0206 0206	123 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.01 mg/l 100 ug/l 100 ug/l 40 ug/l 8 ug/l 25 ug/l	
<u>o</u>			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219	0206 0206 0206 0206 0206 0206 0206 0206		100 ug/l 100 ug/l 40 ug/l 8 ug/l 10 ug/l 25 ug/l	
<u>o</u>			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219	0206 0206 0206 0206 0206 0206 0206 0206	123 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	100.ug/l 40.ug/l 8 ug/l 10.ug/l 25 ug/l	
0			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219	0206 0206 0206 0206 0206 0206 0206 0206		40: ug/l 8: ug/l 10: ug/l 25: ug/l	
<u>o</u>			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219	0206 0206 0206 0206 0206 0206 0206 0206		8 ug/l 10 ug/l 25 ug/l	
Q			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219	02206 02206 02206 02206 02206 02206 02206		10 ug/l 25 ug/l	
0			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219 SP219 SP219 SP219 SP219 SP219 SP219 SP219 SP219	0206 0206 0206 0206 0206 0206 0206		25 ug/l	
<u>o</u>			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219 SP219 SP219 SP219 SP219 SP219 SP219 SP219 SP219	0206 0206 0208 0208 0206 0206 0206			
<u>o</u>			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219 SP219 SP219 SP219 SP219 SP219 SP219 SP219	0206 0206 0206 0206 0206 0206		20 ug/l	
<u>o</u>			02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219 SP219 SP219 SP219 SP219 SP219	0206 0206 0206 0206) 	5.1 mg/l	
<u>o</u>		J21855-3 J21855-3 J21855-3 J21855-3	02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219 SP219 SP219 SP219 SP219 SP219	0206 0206 0206 0206	0 0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-1,4-Dichlorobenzene 105-46-7 1,2-Dichloroethane 107-06-2 Toluene 108-88-3 Chlorobenzene 108-90-7		J21855-3 J21855-3 J21855-3	02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06 03-Apr-06	SP219 SP219 SP219 SP219 SP219	0206 0206 0206	-	1/gu 1	
		J21855-3 J21855-3	02-Feb-06 02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06	SP219 SP219 SP219 SP219	0206		1 ug/l	
		J21855-3	02-Feb-06 02-Feb-06 02-Feb-06	03-Apr-06 03-Apr-06 03-Apr-06	SP219 SP219 SP219	0206	0 0	1 ug/l	
		C 11010.	02-Feb-06 02-Feb-06	03-Apr-06	SP219 SP219 SP210	0206	0 0	1 ug/l	
		J21855-3	02-Feb-06	03-Apr-08	SP219	272	0.0	1 ug/l	
		J21855-3		2	00010	0206	0 0	1 ug/l	
Dipromochioromemane 124-48-1		J21855-3	02-Feb-06	03-Apr-06	5 7 5	0206	0.0	1 ug/l	
Tetrachloroethene 127-18-4		J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0 0	1 ug/l	
Xylenes (total) 1330-20-7		J21855-3	02-Feb-06	03-Apr-06	SP219	0206	∩ 0	1 ug/l	
cis-1,2-Dichloroethene 156-59-2	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.59 J	1 ug/l	
trans-1,2-Dichloroethene 156-60-5	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.0	1 ug/l	
1,3-Dichlorobenzene 541-73-1	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0	1 ug/l	
Carbon tetrachloride 56-23-5	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	9020	0	1 09/1	:
Chloroform 67-66-3	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	9020	0.59 J	1 ug/l	
Benzene 71-43-2	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	∩ 0	1 ug/l	
1,1,1-Trichloroethane 71-55-6	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.0	1 ug/l	
Methyl bromide 74-83-9	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0208	0.0	1 ug/l	
Chloromethane 74-87-3	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.0	1 ug/l	
Chloroethane 75-00-3	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.0	1 ug/l	
Vinyl chloride 75-01-4	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	1.1 J	2 ug/l	
Methylene chloride 75-09-2	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	n o	1 ug/l	
Bromoform 75-25-2	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.0	1 ug/l	
Bromodichloromethane 75-27-4	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.0	1 ug/l	
1,1-Dichloroethane 75-34-3	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	1.2	1 ug/l	
1,1-Dichloroethene 75-35-4	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0 0	1 ug/l	
Trichlorofluoromethane 75-69-4	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.0	2 ug/l	
Dichlorodifluoromethane 75-71-8	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	9020	∩°	2 ug/l	
1,2-Dichloropropane 78-87-5	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	∩	1 ug/l	
1,1,2-Trichloroethane 79-00-5	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	∩ °	1 ug/l	
Trichloroethene 79-01-6	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	9020	٥٥	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	O 0	1 ug/l	
1,2-Dichlorobenzene 95-50-1	EPA 624	J21855-3	02-Feb-06	03-Apr-06	SP219	0206	0.0	1 ug/l	:

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Ethylbenzene 100-41-4 cis-1,3-Dichloropropene 10061-01-5 trans-1,3-Dichloropropene 10061-02-6 1,4-Dichlorobenzene 106-46.7	7 77 7	104 604	121855 4	02-Feb-06	03-Apr-06	¥	TRIP BLANK	٥٥	_:	
<u>o</u>	†	EFA 624	1-000170							
trans-1,3-Dichloropropene 1,4-Dichlorobenzene	10061-01-5	EPA 624	J21855-4	02-Feb-06	03-Apr-06	¥	TRIP BLANK	0	l'gu'l	
	0061-02-6	EPA 624	J21855-4	02-Feb-06	03-Apr-06	¥	TRIP BLANK	<u>،</u>	1 ug/l	
	106-46-7	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	<u>ې</u>	1 ug/l	
	107-06-2	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	O o	1.ug/l	
Toluene	108-88-3	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	n o	1 vg/l	
Chlorobenzene	108-90-7	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	<u>ې</u>	1 ug/l	
Dibromochloromethane	24-48-1	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	∩ °	1 vg/l	
Tetrachloroethene	127-18-4	EPA 624	J21855-4	02-Feb-06	03-Apr-06	¥	TRIP BLANK	∩ •	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	O 0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J21855-4	02-Feb-06	03-Apr-06	N X X	TRIP BLANK	∩ °	1 ug/l	
9	156-80-5	EPA 624	J21855-4	02-Feb-06	03-Apr-06	¥	TRIP BLANK	∩ °	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	∩ •	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	⊃ •	1 ug/l	
Chloraform	67-66-3	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Benzene	71-43-2	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	∩ °	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK) 0	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	n o	1 ug/l	
	74-87-3	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	0.0	1.ug/l	
Chloroethane	75-00-3	EPA 624	J21855-4	02-Feb-06	03-Apr-06	¥	TRIP BLANK	<u></u> 0	1:ug/l	
Vinyl chloride	75-01-4	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	⊃ •	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J21855-4	02-Feb-06	03-Apr-06	¥	TRIP BLANK	∩ 0	1, ug/	
Bromoform	75-25-2	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	∩. 0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	∩.	1/gn 1	
1,1-Dichlaroethene	75-35-4	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	⊃ •	1;ug/[
Trichlorofluoromethane	75-69-4	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	∩ •	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	<u>∩</u>	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	<u>∩</u> •	1.ug/	
1,1,2-Trichloroethane	79-00-5	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	<u>⊃</u> o	1/6n:1	
Trichloroethene	79-01-6	EPA 624	J21855-4	02-Feb-06	03-Apr-06	ž	TRIP BLANK	∩.°	1 ug/	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J21855-4	02-Feb-06	03-Apr-06	Š	TRIP BLANK	∩	logu t	
1,2-Dichlorobenzene	95-50-1	EPA 624	J21855-4	02-Feb-06	03-Apr-06	¥	TRIP BLANK	<u></u>	1 ug/	

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7429-90-5 EPA 2007 21855-1F 0.2-Feb-06 03-Apr-06 7429-90-5 EPA 2007 21855-3F 0.2-Feb-06 03-Apr-06 7439-90-5 EPA 2007 21855-3F 0.2-Feb-06 03-Apr-06 7439-90-5 EPA 2007 21855-1 0.2-Feb-06 03-Apr-06 7440-02-0 EPA 2007 21855-1 0.2-Feb-06 03-Apr-06 7440-02-0 EPA 2007 21855-1 0.2-Feb-06 03-Apr-06 7440-02-0 EPA 2007 21855-1 0.2-Feb-06 03-Apr-06 7440-08-6 EPA 2007 21855-1 0.2-Feb-06 03-Apr-06 700-10-2 EPA 624 21855-1 0.2-Feb-06 03-Apr-06 700-10-2 EPA 624 21855-1 0.2-Feb-06 03-Apr-06 8-1 100-41-3 E	Analyte	Casho	Method	Labsampid				2	Kesult Code	* RE LIBER VANG Result vand Lode	Aut Vand Code
Name 7429-00-5 FPA 2007 2/1865-3F 02-Feb-06 03-Apr-06 SP719 0006 7439-00-5 FPA 2007 2/1865-3F 02-Feb-06 03-Apr-06 SP114 0206 7439-00-5 FPA 2007 2/1865-1 02-Feb-06 03-Apr-06 SP114 0206 7430-08-6 FPA 2007 2/1865-1 02-Feb-06 03-Apr-06 SP114 0206 1740-08-8 FPA 624 2/1865-1 02-Feb-06 03-Apr-06 SP114 0206 1740-08-8 FPA	Aluminum, Dissolved	7429-90-5	EPA 200.7	J21855-1F	02-Feb-06	03-Apr-06	SP114	0206	∩ •	100: ug/l	
7439-92-1 FA 2007 121855-1 02-Feb-06 03-Apr-06 SP114 0206 1439-96-8 FA 2007 121855-1 02-Feb-06 03-Apr-06 SP114 0206 1440-92-9 FA 2007 121855-1 02-Feb-06 03-Apr-06 SP114 0206 1440-96-9 1440-96-9 FA 2007 121855-1 02-Feb-06 03-Apr-06 SP114 0206 1440-96-9 PA 2007 121855-1 02-Feb-06 03-Apr-06 SP114 0206 1440-9 PA 2007	Aluminum, Dissolved	7429-90-5	EPA 200.7	J21855-3F	02-Feb-06	03-Apr-06	SP219	0206	00	100 ug/l	:
7429-90-5 FPA 2007 12/885-1 02-Feb-06 03-Apr-06 SP114 0000 7439-90-6 EPA 2007 12/885-1 02-Feb-06 03-Apr-06 SP114 0000 7440-38-2 EPA 2007 12/885-1 02-Feb-06 03-Apr-06 SP114 0206 1 7440-38-2 EPA 2007 12/885-1 02-Feb-06 03-Apr-06 SP114 0206 1 7440-38-2 EPA 2007 12/885-1 02-Feb-06 03-Apr-06 SP114 0206 1 00-41-4 EPA 8207 12/885-1 02-Feb-06 03-Apr-06 SP114 0206 nopere 10051-02-6 EPA 8207 12/885-1 02-Feb-06 03-Apr-06 SP114 0206 nopere 1005-02-7 EPA 824 12/885-1 02-Feb-06 03-Apr-06 SP114 0206 nopere 1005-02-7 EPA 824 12/885-1 02-Feb-06 03-Apr-06 SP114 0206 nopere 1005-02-8 EPA 824 12/885-1 02-Feb-06 03-Apr-06 SP114	Lead, Total	7439-92-1	EPA 200.7	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	n o	3 ug/l	
7439-89-6 PA 2007 21855-1 02-Feb-06 03-Apr-06 SP114 0206 44 1440-38-2 PA 2007 21855-1 02-Feb-06 03-Apr-06 SP114 0206 03-Apr-	Aluminum, Total	7429-90-5	EPA 200.7	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	0 0	100 ug/l	
1440-02-0 PA 2007 21855-1 02-Feb-06 03-Apr-06 SP114 0206	Iron, Total	7439-89-6	EPA 200.7	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	46400	100 ug/l	
7440-38-2 EPA 2007 J.21865-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 7440-47-3 EPA 2007 J.21865-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 7440-47-3 EPA 2007 J.21855-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 7440-68-6 EPA 2007 J.21855-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 100-41-4 EPA 624 J.21855-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 100-46-7 EPA 624 J.21855-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 106-46-7 EPA 624 J.21855-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 106-46-7 EPA 624 J.21855-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 106-46-7 EPA 624 J.21855-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 1106-46-7 EPA 624 J.21855-1 O.2-Feb-06 G3-Apr-06 SP114 O.206 1106-46-7 EPA 624	Nickel, Total	7440-02-0	EPA 200.7	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	∩ 0	40 ug/l	
7.440-47-3 EPA 2007 J.21855-1 0.2-Feb-06 03-Apr-06 SP114 0.206 7.40-60-8 EPA 2007 J.21855-1 0.2-Feb-06 03-Apr-06 SP114 0.206 7.40-60-8 EPA 200 J.21855-1 0.2-Feb-06 03-Apr-06 SP114 0.206 100-41-4 EPA 620 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 100-41-5 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 100-10-2-6 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 105-60-7 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 106-60-7 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 108-80-3 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 108-80-5 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 118-60-6 EP	Arsenic, Total	7440-38-2	EPA 200.7	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	98.4	8 ug/l	
7.440-50-8 EPA 200.7 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 7.440-68-8 EPA 200.7 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 100-01-0.5 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 10061-0.2-6 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 106-6-7 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 108-60-7 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 108-80-7 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 108-80-7 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 127-184 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 127-184 EPA 624 J.21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 127-185-2	Chromium, Total	7440-47-3	EPA 200.7	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	0.0	10 ug/l	
7440-66-6 EPA 2007 J21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 100-41-4 EPA 624 J21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 100-41-4 EPA 624 J21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 106-46-7 EPA 624 J21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 106-46-7 EPA 624 J21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 108-80-3 EPA 624 J21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 108-80-3 EPA 624 J21855-1 0.2-Feb-06 0.3-Apr-06 SP114 0.206 1124-48-1 EPA 624 <td>Copper, Total</td> <td>7440-50-8</td> <td>EPA 200.7</td> <td>J21855-1</td> <td>02-Feb-06</td> <td>03-Apr-06</td> <td>SP114</td> <td>0206</td> <td>0</td> <td>25 ug/l</td> <td></td>	Copper, Total	7440-50-8	EPA 200.7	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	0	25 ug/l	
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EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.8 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.8 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.8	1,1-Dichloroethane	75-34-3	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	34	. 2 ug/l	
EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.8 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.8	1,1-Dichloroethene	75-35-4	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	⊃ °	2 ug/l	
EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206		75-69-4	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	∩	4 ug/l	
EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.4 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.4	Dichlorodifluoromethane	75-71-8	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	0.0	4 ug/l	
EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.8 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0.8 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206	1,2-Dichloropropane	78-87-5	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	00	2 ug/l	
EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 EPA 624 J21855-1 02-Feb-06 03-Apr-08 SP114 0206	1,1,2-Trichloroethane	79-00-5	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	∩ °	2 ug/l	
EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114	Trichloroethene	79-01-6	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	0.85 J	2 ug/l	
	1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	∩ °	2 ug/l	
1.2-Dichlorobenzana 95-50-1 EPA 624 J21855-1 02-Feb-06 03-Apr-06 SP114 0206 0 U	1.2-Dichlorobenzane	95-50-1	EPA 624	J21855-1	02-Feb-06	03-Apr-06	SP114	0206	O o	2 ug/l	

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DATA USABILITY SUMMARY REPORT FOR MARCH 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on March 6, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on March 7, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J24238) was received by On-Site within 18 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" – not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in laboratory data resulting from data validation. Therefore, the nondetected oil and grease

result for sample SP219-0306 was considered estimated and qualified "UJ" in the "Valid Code" column as a result from data validation.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS recoveries.

All MS recoveries were compliant and within QC acceptance ranges with the exception of the low recovery for oil and grease (70.4%R; QC limit 79-114%R). As a result, the nondetected oil and grease result for sample SP219-0306 was considered estimated, possibly biased low, and qualified "UJ".

Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

pH Aluminum, Total Iron. Total		EPA 150.1	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	6.61	ns	
Aluminum, Total Iron Total						Section of the section of the section of				
Iron. Total	7429-90-5	EPA 200.7	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	108	100 ug/l	
	7439-89-6	EPA 200.7	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	50800	100 ug/l	
Lead, Total	7439-92-1	EPA 200.7	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	0.0	3 ug/l	
	7440-02-0	EPA 200.7	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	0.0	40 ug/l	
Arsenic, Total	7440-38-2	EPA 200.7	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	114	8 ug/l	:
Chromium, Total	7440-47-3	EPA 200.7	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	n o	10 ug/l	
tal	• -	EPA 200.7	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	0.0	25:ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	0 0	20 ug/l	
Ethylbenzene	100-41-4	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	86	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9020	00	1 ug/l	
trans-1,3-Dichloropropene, 10061-02-6	10061-02-6	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9306	0.0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	00	1 ug/l	
Toluene	108-88-3	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	8.7	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9306	0 0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9306	0.0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	∩ 0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	11.5	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	101	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	1.3	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J2423 8 -1	06-Mar-06	04-Apr-06	SP114	0306	∩ °	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	∩ o	1 ug/l	
Chloroform	67-66-3	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	∩ o	1 ug/l	:
Benzene	71-43-2	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	104	1 ug/l	
1,1,1-Trichloroethane	71-55-8	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	9.7	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	∩ o	1 ug/l	
Chloromethane	74-87-3	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	0.0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9060	1.2	1 ug/l	
Vinyi chloride	75-01-4	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	108	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	O 0	1 ug/l	
Bromoform	75-25-2	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	0.0	1 ug/l	:
Bromodichloromethane	75-27-4	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	0.0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9020	27.6	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	∩ o	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	0306	0.0	2.ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	∩ °	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J2423B-1	06-Mar-06	04-Apr-06	SP114	9020	∩ o	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9306	n o	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J24238-1	06-Mar-06	04-Apr-08	SP114	9060	2.7	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	∩ o	1 ug/	
1,2-Dichlorobenzene	95-50-1	EPA 624	J24238-1	06-Mar-06	04-Apr-06	SP114	9080	∩ o	1 ug/l	:

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Ethylbenzene	100-41-4	EPA 624	124238-2	06-Mar-06	04-Apr-06	SP217	9060	0.0		
cis-1,3-Dichloropropene	10061-01-5	EPA 624	124238-2	06-Mar-06	04-Apr-06	SP217	9306	00	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	124238-2	06-Mar-06	04-Apr-06	SP217	0306	0	1 ug/l	
,4-Dichlorobenzene	106-46-7	EPA 624	124238-2	06-Mar-06	04-Apr-06	SP217	0306	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9000	00	1 ug/l	
Toluene	108-88-3	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	0.0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	00	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	0306	00	1 ug/l	
Fetrachloroethene	127-18-4	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9020) 0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	0308	0	1.gu:1	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	0.79 J	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	0	1 ug/l	
I,3-Dichlorobenzene	541-73-1	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	00	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 824	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	0	1 ug/l	
Chloroform	67-66-3	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	0.64 J	1 ug/l	
Benzene	71-43-2	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	∩ °	1 ug/l	
I,1,1-Trichloroethane	71-55-6	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	⊃ °	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9060	∩ °	1 ug/l	
Chloromethane	74-87-3	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	o •	1 ug/l	
Chloroethane	75-00-3	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9080	∩ •	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9306	0.86.J	2 ug/l	:
Methylene chloride	75-09-2	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	0306) 0	1 ug/l	
Bromoform	75-25-2	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9080	∩ °	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9080	⊃ •	1 ug/l	
l 1-Dichloroethane	75-34-3	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9080	1.3	1 ug/	
1,1-Dichloroethene	75-35-4	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9080	⊃ •	1 ug/	
Trichlorofluoromethane	75-69-4	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9020	⊃ °	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9080	⊃ °	2 ug/l	:
1,2-Dichloropropane	78-87-5	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9080	⊃ °	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9060	<u>⊃</u>	1 ug/	
Trichloroethene	79-01-6	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	0306	<u></u>	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	0308	<u></u>	1 ug/l	
1.2-Dichlorobenzene	95-50-1	EPA 624	J24238-2	06-Mar-06	04-Apr-06	SP217	9080	⊃ °	1 ug/l	

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Cyanide	57-12-5		J24238-3	06-Mar-06	04-Apr-06	SP219	9080	0 0	0.01 тg/l	
Ŧ		EPA 150.1	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	7.83	7	:
Aluminum, Total	7429-90-5	EPA 200.7	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	100 ug/l	
Iron, Total	7439-89-6	EPA 200.7	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	182	100 ua/l	
Lead, Total	7439-92-1	EPA 200.7	J24238-3	06-Mar-06	04-Apr-06	SP219	9080	0.0	3 ug/l	
Nickel, Total	7440-02-0	EPA 200.7	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0 0	40:ug/l	
Arsenic, Total	7440-38-2	EPA 200.7	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	8 ug/l	
tal		EPA 200.7	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0 0	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0:0	25 ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	20 ug/l	
Oil And Grease		EPA 1664A	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	5.1 mg/l	Ŋ
	100-41-4	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	∩ 0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	
Toluene	108-88-3	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0 0	1 ug/l	:
Dibromochloromethane	124-48-1	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9306	0 0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9306	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	· · · · · · · · · · · · · · · · · · ·
cis-1,2-Dichloraethene	156-59-2	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9080	∩ o	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9060	0.0	1 ug/l	· · · · · · · · · · · · · · · · · · ·
1,3-Dichlorobenzene	541-73-1	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9306	0 0	1 ug/l	
Carbon tetrachloride	56-23-5		J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	
Chloroform	67-66-3	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	∩.0	1 ug/l	
Benzene	71-43-2	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9306	0.0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	∩ 0	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9060	0.0	1 ug/l	:
Chloromethane	74-87-3	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9306	∩ . 0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9080	0.0	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	2:ug/l	
Methylene chloride	75-09-2	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9060	0.0	1 ug/l	
Bromoform	75-25-2	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306) 0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J24238-3	06-Mar-06	04-Apr-08	SP219	0306	0.0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9080	0.0	1:ug/l	
1,1-Dichloroethene	75-35-4		J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1:ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9080	∩ o	2 ug/l	
Dichlorodifluoromethane	75-71-8		J24238-3	06-Mar-06	04-Apr-06	SP219	0306	n.o	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	
1,1,2-Trichloroethane	79-00-5		J24238-3	06-Mar-06	04-Apr-06	SP219	0306	∩ o	1 ug/l	
Trichloroethene	79-01-6		J24238-3	06-Mar-06	04-Apr-06	SP219	0306	0.0	1 ug/l	
1 1 2 2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J24238-3	06-Mar-06	04-Apr-06	SP219	9080	0.0	1 ug/l	

J24238val.xls 3 of 5

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	1,2-Dichlorobenzene 95-50-1 EPA
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:	100-41-4	EPA 624	J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	<u> </u>	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	0 0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	0	1 ug/l	
1,4-Dichlorobenzene	106-46-7		J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
1,2-Dichloroethane	107-06-2		J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Toluene	108-88-3	EPA 624	J24238-4	06-Mar-06	04-Apr-06	¥	TRIP BLANK	0.0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	00	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
1,3-Dichlorobenzene	541-73-1		J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Carbon tetrachloride	56-23-5		J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Chloroform	67-66-3	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Benzene	71-43-2		J24238-4	06-Mar-06	04-Apr-06	¥	TRIP BLANK	0	1 ug/l	
1,1,1-Trichloroethane	71-55-6		J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/	
Methyl bromide	74-83-9	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	1 ug/l	
Vinyl chloride	75-01-4		J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	0	1 ug/l	
Bromoform	75-25-2	EPA 624	J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	∩ 0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	∩ •	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	00	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	0	2 ug/l	
Dichlorodifluoromethane	75-71-8		J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	ე 0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	∩ 0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J24238-4	06-Mar-06	04-Apr-06	¥	TRIP BLANK	<u></u>	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	∩ •	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J24238-4	06-Mar-06	04-Apr-06	Š	TRIP BLANK	<u>∩</u>	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J24238-4	06-Mar-06	04-Apr-06	ž	TRIP BLANK	<u></u> 0	1 ug/l	
Aluminum, Dissolved	7429-90-5	EPA 200.7	J24238-1F	06-Mar-06	04-Apr-06	SP114	9306	<u>∩</u>	100 ug/l	
Aluminum, Dissolved	7429-90-5	EPA 200.7	J24238-3F	06-Mar-06	04-Apr-06	SP219	9080	O 0	100 ug/l	

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DATA USABILITY SUMMARY REPORT FOR APRIL 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on April 6, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on April 7, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J27120) was received by On-Site within 21 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in laboratory data resulting from data validation. Therefore, the nondetected chloroethane

results for samples SP217-0406, SP219-0406, and TRIP BLANK were considered estimated and qualified "UJ" in the "Valid Code" column as a result from data validation.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of continuing calibrations. All continuing calibration compounds were compliant with maximum percent differences (%Ds) of ±25% and minimum relative response factors (RRFs) of 0.05 with the exception of chloroethane (-33.4%D, -26.4%D) in the continuing calibrations associated with samples SP217-0406, SP219-0406, and TRIP BLANK. Therefore, the nondetected chloroethane results for these samples were considered estimated and qualified "UJ".

Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination

- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

Ha		EPA 150.1	J27120-1	06-Apr-06	23-May-06	SP114	0406	6 73	5	
F	1 00 000					5	2	2	200	
Auminum, Iotal	7429-90-5		J27120-1	06-Apr-06	23-May-06	SP114	0406	⊃ •	100 ng/l	
Iron, Total	7439-89-6	EPA 200.7	J27120-1	06-Apr-06	23-May-06	SP114	0406	45800	100 ug/l	
Lead, Total	7439-92-1	EPA 200.7	J27120-1	06-Apr-06	23-May-06	SP114	0406	0 0	3.ug/l	
Nickel, Total	7440-02-0	EPA 200.7	J27120-1	06-Apr-06	23-May-06	SP114	0406	0	40 ug/l	:
Arsenic, Total	7440-38-2	EPA 200.7	J27120-1	06-Apr-06	23-May-06	SP114	0406	96.6	8 ug/l	
Chromium, Total	7440-47-3	EPA 200.7	J27120-1	06-Apr-06	23-May-06	SP114	0406	Ωo	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J27120-1	06-Apr-06	23-May-06	SP114	0406	∩ o	25 ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J27120-1	06-Apr-06	23-May-06	SP114	0406	∩ o	20 ug/l	
Ethylbenzene	100-41-4	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	8.5	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0.0	1.ug/	
Dichloropropene	10061-02-6	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0	1.ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	∩ 0	1 ug/l	:
1,2-Dichloroethane	107-06-2	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0	1:ug/l	
Toluene	108-88-3	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	7.6	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0.56 J	1.ug/l	· · · · · · · · · · · · · · · · · · ·
Dibromochloromethane	124-48-1	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0408	ō	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	61	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0.93	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	O o	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	Ω°	1 ug/l	
Chloroform	67-66-3	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	n o	1 ug/l	
Вепzепе	71-43-2	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0408	87.5	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	7.6	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	<u></u>	1:ug/l	
Chloromethane	74-87-3	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	∩ o	1.ug/l	
Chloroethane	75-00-3	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	1.3	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	73	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	O o	1 ug/l	
Вготобогт	75-25-2	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	<u>۵</u>	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0 0	1:ug//	
1,1-Dichloroethane	75-34-3	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	21.3	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	<u>0</u>	1:ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	∩ o	2.ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	∩ o	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0408	∩ o	1:ug/l	
1,1,2-Trichloroethane	2-00-62	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0.0	1 ng/l	
Trichloroethene	79-01-6	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0.46.J	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	Πo	1:ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J27120-1	06-Apr-06	23-May-06	SP114	0406	0.0	1 ug/l	-
Aliminim Dissolved	7 400 000						Trans contract sections			

myloenzene	100-41-4	FPA 624	127120-2		23-May-06	SP217	OAOR	=		
4.0 0 0.00	10000			٠٠.		5	2	0	- 105n	
cis-1,3-Ucnoropropene	4-10-10001	EPA 624	J2/120-2	:	23-May-06	SP217	0406	⊃.	1/gn:1	
Dichloropropene	10061-02-6	EPA 624	J27120-2		23-May-06	SP217	0406	∩ o	1 ug/l	
,4-Dichlorobenzene	106-46-7	EPA 624	J27120-2		23-May-06	SP217	0406	∩ o	1 ug/l	
1,2-Dichtoroethane	107-06-2	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ o	1 ug/l	-
Toluene	108-88-3	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	ŊÖ	1 ug/l	0
Chlorobenzene	108-90-7	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ 0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ 0	1 ug/l	÷
etrachloroethene	127-18-4	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ •	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ 0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	2.9	1 ug/l	***************************************
trans-1,2-Dichloroethene	158-80-5	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	0	1 ug/l	
I,3-Dichlorobenzene	541-73-1	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	0.0	1 ug/l	:
Carbon tetrachloride	56-23-5	EPA 624	J27120-2	06-Apr-06	23-May-06	. SP217	0406	∩ o	1 ug/l	·
Chloroform	67-66-3	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	1.2	1 ug/l	:
Benzene	71-43-2	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	Π.0	1 ug/l	· · · · · ·
.1,1-Trichloroethane	71-55-8	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	0.61.J	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ 0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩.0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ 0	1 ug/l	3
Vinyl chloride	75-01-4	EPA 624	J27120-2	06-Apr-08	23-May-06	SP217	0406	0.81 J	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ °	1 ug/l	
Bromoform	75-25-2	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	0.0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	0 0	1 ug/l	
,1-Dichloroethane	75-34-3	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	3.2	1 ug/l	· · · · · · · · · · · · · · · · · · ·
1,1-Dichloroethene	75-35-4	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	0.0	1 ug/l	:
Trichlorofluoromethane	75-69-4	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ 0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	0 0	2:ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J27120-2	06-Apr-08	23-May-06	SP217	0406	0.0	1:ug/l	
,1,2-Trichloroethane	79-00-5	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ o	1 ug/l	
Trichloroethene	79-01-8	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ 0	1 ug/l	
1,1,2,2-Tetrachioroethane 79-34-5	79-34-5	EPA 624	J27120-2	06-Apr-06	23-May-06	SP217	0406	∩ o	1 ug/l	· · · · · · · · · · · · · · · · · · ·
1 2-Dichtorobanzana	95-50-1	FPA 624	127120-2	06-Anr-06	23-May-08	SP217	0406	=	70.7	

La		EPA 150.1	J27120-3	06-Apr-06	23-May-06	SP219	0406	7.27	ns	
Cyanide	57-12-5	EPA 335.3	J27120-3	06-Apr-06	23-May-06	SP219	0406	0	1/bm 0	
Aluminum, Total	7429-90-5	EPA 200.7	J27120-3	06-Apr-06	23-May-06	SP219	0406	∩ 0	100 ua/l	
Iron, Total	7439-89-6	EPA 200.7	J27120-3	06-Apr-06	23-May-06	SP219	0406	150	100:10	
Lead, Total	7439-92-1	EPA 200.7	J27120-3	06-Apr-06	23-May-06	SP219	0406	Π 0	3:ud/	
Nickel, Total	7440-02-0	EPA 200.7	J27120-3	06-Apr-06	23-May-06	SP219	0406	Ω°	40 ug/l	
Arsenic, Total	7440-38-2	EPA 200.7	J27120-3	06-Apr-06	23-May-06	SP219	0406	0.0	/bn 8	
Chromium, Total	7440-47-3	EPA 200.7	J27120-3	06-Apr-06	23-May-06	SP219	0406	0.0	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J27120-3	06-Apr-06	23-May-06	SP219	0406	0.0	25 ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J27120-3	06-Apr-06	23-May-06	SP219	0406	00	20 ug/l	
Oil And Grease		EPA 1664A	J27120-3	06-Apr-06	23-May-06	SP219	0406	O 0	5.1 ma/l	
Ethylbenzene	100-41-4	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0	1 ua/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406) 0	1,00/L	
Dichloropropene	10061-02-6	Ш	J27120-3	06-Apr-06	23-May-06	SP219	0406	Π 0	1 ua/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	∩ o	1 ua/	
1,2-Dichloroethane	107-06-2	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	∩ o	1 ua/l	
Toluene	108-88-3	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0	1 ug/l	:
Chlorobenzene	108-90-7	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	∩ o	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0 0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	∩	1/Bn 1	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0 0	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	∩ 0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0.0	1 ug/l	
Carbon tetrachloride		EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	ΩO	1 ug/l	
Chloroform	67-66-3	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	Ωo	1 ug/l	
Benzene		EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	O O	1.ug//	
1,1,1-Trichloroethane	71-55-6	EPA 624	J27120-3	08-Apr-08	23-May-06	SP219	0406	0.0	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	Ωo	1.ug//	
Chloroethane	75-00-3	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	O:0	1.ug/l	S
Vinyl chloride	75-01-4	∢:	J27120-3	06-Apr-06	23-May-06	SP219	0406	n o	2.ug/l	
Methylene chloride	75-09-2	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	n:o	1.ug/l	
Вготобот	75-25-2	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	Ω°	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	n o	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	O O	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	ΩO	1.ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	Ω°O	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0.0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0408	∩ 0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0.0	1 ug/l	0
Trichloroethene 79-01-6	79-01-6	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	∩ 0	1 ug/l	
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J27120-3	06-Apr-06	23-May-06	SP219	0406	0 0	1 ug/l	
A O District Contract	05-50-1	EDA A2A	. 6 001701							

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Result Valid (
Rt. Chrits Valid	100.ug/l
Result Code	0:0
Location	0406
Sample	SP219
Validation Date	23-May-06
Date Sampled	PA 200.7 J27120-3F 06-Apr-06
Labsampid	J27120-3F
Method	EPA 200.7
Casero	id 7429-90-5 EP/
Analyte	ım, Dissolved
	Aluminur

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J27120val.xls

Ethylbenzene	100-41-4	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0	1 ug/	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J27120-4	06-Apr-06	23-May-06	Ň	TRIP BLANK	0	1 ug/l	
Dichloropropene	10061-02-6	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0 0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J27120-4	06-Apr-06	23-May-06	N	TRIP BLANK	0.0	1.ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J27120-4	06-Apr-06	23-May-06	SN	TRIP BLANK	0.0	1 ug/l	
Foluene	108-88-3	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0 0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J27120-4	06-Apr-06	23-May-06	N C	TRIP BLANK	0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
Tetrachioroethene	127-18-4	EPA 624	J27120-4	06-Apr-06	23-May-06	¥	TRIP BLANK	0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J27120-4	06-Apr-06	23-May-06	¥	TRIP BLANK	0.0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
Chloroform	67-66-3	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
Benzene	71-43-2	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	<u>0</u>	1 ug/1	
Methyl bromide	74-83-9	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	<u>∩</u> 0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J27120-4	06-Apr-06	23-May-06	ž	TRIP BLANK	0.0	1 ug/l	3
Vinyi chloride	75-01-4	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	O.O	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
Bromoform	75-25-2	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J27120-4	06-Apr-06	23-May-06	SK	TRIP BLANK	0.0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J27120-4	06-Apr-06	23-May-06	SK	TRIP BLANK	0.0	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	<u>0</u>	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0 0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0	2:ug/l	
1,2-Dichloropropane	78-87-5		J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	_ 0	1.ug/l	
1,1,2-Trichloroethane	79-00-5		J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK:	∩:0	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J27120-4	06-Apr-06	23-May-06	S. K	TRIP BLANK	<u></u> 0	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5		J27120-4	06-Apr-06	23-May-06	Š	TRIP BLANK	0.0	1.ug/l	
1 2-Dichlorobenzene	05.50.1	100 407								

DATA USABILITY SUMMARY REPORT FOR MAY 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on May 3, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on May 4, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J29436) was received by On-Site within 19 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

[&]quot;U" - not detected at the value given,

[&]quot;UJ" - estimated and not detected at the value given,

[&]quot;J" - estimated at the value given, and

[&]quot;R" – unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in laboratory data resulting from data validation. However, the laboratory data did not require qualification resulting from data validation for these samples. Therefore, there were no changes to the laboratory data presented in the attached table.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions

- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of LCS recoveries. All LCS recoveries were compliant and within QC acceptance limits with the exception of the high LCS recovery for cyanide (112.2%R; QC limit 90-110%R). Since cyanide was not detected in the project sample SP219-0506, validation qualification was not warranted.

Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

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5.		L A DO	J28430-1	UZ-May-05	24-May-05	SP114	9050	6.62		
Aluminum, Total	7429-90-5	EPA 200.7	J29436-1	02-May-06	24-May-06	SP114	0506	⊃ o	100 ug/l	
Iron, Total		EPA 200.7	J29436-1	02-May-06	24-May-06	SP114	0506	46800	100 ug/l	:
Lead, Total	7439-92-1	EPA 200.7	J29436-1	02-May-06	24-May-06	SP114	0506	0.0	3.ua/l	
Nickel, Total	7440-02-0	EPA 200.7	J29436-1	02-May-06	24-May-06	SP114	0506	0.0	40 ua/l	
Arsenic, Total		EPA 200.7	J29436-1	02-May-06	24-May-06	SP114	0506	896	8 ua/	
Chromium, Total	7440-47-3	EPA 200.7	J29436-1	02-May-06	24-May-06	SP114	0506	∩°	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J29436-1	02-May-06	24-May-06	SP114	0508	∩ o	25 ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J29436-1	02-May-06	24-May-06	SP114	0506	∩ o	20 ug/l	
Ethylbenzene	100-41-4	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	10.1	1 ua/l	
cis-1,3-Dichlorapropene	10061-01-5	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩.0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0508	0 0	1/m2/1	
1,4-Dichlorobenzene	106-46-7	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩ °	1 ug/l	
oroethane	107-06-2	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩ o	l'gu l	
Toluene	108-88-3	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	G	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0206	0.64 J	l'au'i	
hane	124-48-1	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩ o	1 cg/	
Tetrachloroethene	127-18-4	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩.0	1 ug/J	
Xylenes (total)	1330-20-7	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	11.9	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	76.9	1 ug/	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	1.3	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	0 0	1 ug/l	
Chloroform	67-66-3	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩ o	1 ug/l	
Benzene	71-43-2	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	102	1 ug/	
1,1,1-Trichloroethane	71-55-6	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	7.8	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	ე 0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩ o	1 ug/l	
Chloroethane	75-00-3	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	0.83 J	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0206	71.2	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩ 0	1 ug/l	:
Bromoform	75-25-2	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	n o	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	∩ o	1 ug/l	
1,1-Dichloroethane	75-34-3		J29436-1	02-May-06	24-May-06	SP114	0506	21.1	1 ug/l	
	75-35-4		J29436-1	02-May-06	24-May-06	SP114	0506	n o	1 ug/l	
	75-69-4		J29436-1	02-May-06	24-May-06	SP114	0508	n o	2 ug/l	
ane	75-71-8		J29436-1	02-May-06	24-May-06	SP114	0508) 0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	0.0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0206	n o	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J29436-1	02-May-06	24-May-06	SP114	0506	0.49 J	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5		J29436-1	02-May-06	24-May-06	SP114	9050	n o	1 ug/l	
4.9 Dioblerobongone	05 50 4	FC9 VOL	, 00,00	,, ,,				1 · · · · · · · · · · · · · · · · · · ·	*	:

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Anniyte	Casno	Method	Labsampid	Date Sampled	Validation Date	Sample	Location	Result Code R	Rt. Units Valid Result Valid Code	/alid Code
Ethylbenzene	100-41-4	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1:ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J29436-2	02-May-06	24-May-06	SP217	9050	0.0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	O.O.	1 ug/l	
Toluene	108-88-3	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1:ug/l	
Chlorobenzene	108-90-7	EPA 624	J29436-2	02-May-06	24-May-06	SP217	9050	0.0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/)	
[etrachloroethene	127-18-4	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	: : : : : : : : : : : : : : : : : : : :
cis-1,2-Dichloroethene	156-59-2	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	1.6	1 ug/l	:
trans-1,2-Dichloroethene	156-60-5	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
I,3-Dichlorobenzene	541-73-1	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
Chloroform	67-66-3	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0,86 J	1 ug/l	
Benzene	71-43-2	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	∩ 0	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	O O	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
Bromoform	75-25-2	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0206	0.0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J29436-2	02-May-06	24-May-06	SP217	9050	0.0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J29436-2	02-May-06	24-May-06	SP217	9050	13	1 ug/l	:
1,1-Dichloroethene	75-35-4	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	0.0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	∩.0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	n o	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	O 0	1 ug/l	:
Trichloroethene	79-01-6	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	n.º	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	ე.	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J29436-2	02-May-06	24-May-06	SP217	0506	n.º	1 ug/l	
								* *************************************		

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Arsenic, Total	7440-38-2	EPA 200.7	J29436-3	02-May-06	24-May-06	SP219	9050	<u>∩</u>	/on a
펍		EPA 150.1	J29436-3	02-May-06	24-May-06	SP219	0506	7.3	28
Cyanide	57-12-5	EPA 335.3	J29436-3	02-May-06	24-May-06	SP219	0506	00	0.01 mg/l
Aluminum, Total	7429-90-5	EPA 200.7	J29436-3	02-May-06	24-May-06	SP219	0506	0 0	100 ua/l
ron, Total	7439-89-6	EPA 200.7	J29436-3	02-May-06	24-May-06	SP219	0506	0 0	100 ug/l
-ead, Total	7439-92-1	EPA 200.7	J29436-3	02-May-06	24-May-06	SP219	0506	0.0	3 ug/l
Nickel, Total	7440-02-0	EPA 200.7	J29436-3	02-May-06	24-May-06	SP219	0506	Πo	40 ug/l
Chromium, Total	7440-47-3	EPA 200.7	J29436-3	02-May-06	24-May-06	SP219	0506	Πo	10 ug/l
Copper, Total	7440-50-8	EPA 200.7	J29436-3	02-May-06	24-May-06	SP219	0506	n o	25 ug/l
	7440-66-6	EPA 200.7	J29436-3	02-May-06	24-May-06	SP219	0506	n o	20 ug/l
Oil And Grease		EPA 1664A	J29436-3	02-May-06	24-May-06	SP219	0506	n o	5 mg/l
Ethylbenzene	100-41-4	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	0 0	1 ug/l
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	0.0	1 ug/l
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	0.0	1 ug/l
1,4-Dichlorobenzene	106-46-7	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	0.0	1 ug/l
1,2-Dichloroethane	107-06-2	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	0.0	1 ug/l
Toluene	108-88-3	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	0.0	1 ug/l
Chlorobenzene	108-90-7	EPA 624	J29436-3	02-May-06	24-May-06	SP219	9050	0 0	1 ug/l
Dibromochloromethane	124-48-1	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	n o	1 ug/l
Tetrachloroethene	127-18-4	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	O 0	1 ug/l
Xylenes (total)	1330-20-7	EPA 624	J29436-3	02-May-06	24-May-06	SP219	9050	o O	1 ug/
cis-1,2-Dichloroethene	156-59-2	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	∩	1 ug/l
trans-1,2-Dichloroethene	156-60-5		J29436-3	02-May-06	24-May-06	SP219	9050	n o	1 ug/l
1,3-Dichlorobenzene	541-73-1	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	n o	1 ug/l
Carbon tetrachloride	56-23-5	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	0.0	1 ug/l
Chloroform	67-66-3	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	0.21 J	1 ug/l
Benzene	71-43-2	EPA 624	J29436-3	02-May-06	24-May-06	SP219	9050	0.0	1 ug/l
1,1,1-Trichloroethane	71-55-8	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	O 0	1 ug/l
Methyl bromide	74-83-9	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	O 0	1 ug/l
Chloromethane	74-87-3	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	∩ o	1/gu [
Chloroethane	75-00-3	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	O 0	lgu.t
Vinyl chloride	75-01-4	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506) 0	2:ug/l
Methylene chloride	75-09-2	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	⊃ o	1. ug/l
Bromoform	75-25-2	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506) 0	1.ug/l
Bromodichloromethane	75-27-4	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	⊃ °	1,gn_1
1,1-Dichloroethane	75-34-3	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	n o	1 ug/l
1,1-Dichloroethene	75-35-4	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	⊃ °	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506) 0	2 ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506	⊃ °	2 ug/l
1,2-Dichloropropane	78-87-5	E PA 624	J29436-3	02-May-06	24-May-06	SP219	9050	<u> </u>	1:ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506) 0	1 ug/l
Trichloroethene	79-01-6	EPA 624	J29436-3	02-May-06	24-May-06	SP219	0506) O	1 ug/l
1 1 2 2 Tetrachlarachane 70 34 5	70 24 5	FPA 624	129436-3	02-May-06	24-May-06	SP210	0508	100	E ~

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		EPA 624	J29436-4	02-May-06	24-May-06	š	TRIP BLANK	∩ •	1 ug/l		
cis-1,3-Dichloropropene	10061-01-5	EPA 624	•	02-May-06	24-May-06	Š	TRIP BLANK	<u>∩</u>	1 ug/l		:
trans-1,3-Dichloropropene 10061-02-6	(*	EPA 624	J29436-4	02-May-06	24-May-06	Š	TRIP BLANK	0 0	1 ug/l		
I,4-Dichlorobenzene		EPA 624	J29436-4	02-May-06	24-May-06	ž	TRIP BLANK	0	1 ug/l		
1,2-Dichloroethane		EPA 624	,	02-May-06	24-May-06	Š	TRIP BLANK	0	1 ug/l	<u>.</u>	
Toluene		EPA 624	-	02-May-06	24-May-06		TRIP BLANK	0	1 ug/		:
Chlorobenzene		EPA 624		02-May-06	24-May-06	:	TRIP BLANK	o	1 ug/l		:
Dibromochloromethane		EPA 624		02-May-06	24-May-06		TRIP BLANK	0	1 ug/l		
Tetrachloroethene	127-18-4	EPA 624		02-May-06	24-May-06		TRIP BLANK	0	1 ug/		
Xylenes (total)	1330-20-7	EPA 624		02-May-06	24-May-06		TRIP BLANK	0.0	1 ug/		
cis-1,2-Dichloroethene	156-59-2	EPA 624	: -	02-May-06	24-May-06	SK	TRIP BLANK	0	1 ug/l		:
trans-1,2-Dichloroethene	156-60-5	EPA 624		02-May-06	24-May-06		TRIP BLANK	00	1 ug/l		
1,3-Dichlorobenzene	541-73-1	EPA 624	J29436-4	02-May-06	24-May-06	¥	TRIP BLANK	0.0	1 ug/l		
Carbon letrachloride	56-23-5	EPA 624	J29436-4	02-May-06	24-May-06		TRIP BLANK	0.0	1 ug/l	:	:
Chloroform	,.	EPA 624		02-May-06	24-May-06		TRIP BLANK	∩ 0	1 ug/		
Benzene	71-43-2	EPA 624	•	02-May-06	24-May-06		TRIP BLANK	0	1 ug/l		
1,1,1-Trichloroethane		EPA 624		02-May-06	24-May-06	Š	TRIP BLANK	0	1 ug/l		
Methyl bromide	74-83-9	EPA 624		02-May-06	24-May-06	Š	TRIP BLANK	0.0	1 ug/l	: - -	:
Chloromethane	74-87-3	EPA 624	. ,	02-May-06	24-May-06	Š	TRIP BLANK	∩ •	1 ug/!		:
Chloroethane	75-00-3	EPA 624	J29436-4	02-May-06	24-May-06	Š	TRIP BLANK	<u>∩</u>	1 ug/l		:
Vinyl chloride	75-01-4	EPA 624	J29436-4	02-May-06	24-May-06	ž	TRIP BLANK	_ •	2 ug/l		:
Methylene chloride	75-09-2	EPA 624	J29436-4	02-May-06	24-May-06	Š	TRIP BLANK	∩.º	1 ug/l		:
Bromoform	75-25-2	EPA 624		02-May-06	24-May-06	X N	TRIP BLANK	0.0	1 ug/l		
Bromodichloromethane		EPA 624		02-May-06	24-May-06	X N	TRIP BLANK	0	1 ug/l		:
,1-Dichloroethane	75-34-3	EPA 624		02-May-06	24-May-06	¥	TRIP BLANK	0	1 ug/		
1,1-Dichloroethene		EPA 624	J29436-4	02-May-06	24-May-06	¥ N	TRIP BLANK	0.0	1 ug/		
Trichlorofluoromethane	75-69-4	EPA 624		02-May-06	24-May-06	ž	TRIP BLANK	0.0	2 ug/l		
Dichlorodifluoromethane	75-71-8	EPA 624	J29436-4	02-May-06	24-May-06	¥	TRIP BLANK	0.0	2 ug/l		
1,2-Dichloropropane	78-87-5	EPA 624	∵ 7	02-May-06	24-May-06	Š	TRIP BLANK	00	1 ug/l		
1,1,2-Trichloroethane	79-00-5	EPA 624	7	02-May-06	24-May-06	Š	TRIP BLANK	0	1 ug/l		
Trichloroethene	79-01-6	EPA 624	-	02-May-06	24-May-06	X S	TRIP BLANK	0.0	1 ug/l		
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J29436-4	02-May-06	24-May-06	Š	TRIP BLANK	0.0	1/gu:1		
1,2-Dichlorobenzene		EPA 624		02-May-06	24-May-06	ž	TRIP BLANK	<u>0</u>	1/gn 1		
Aluminum, Dissolved	7429-90-5	EPA 200.7		02-May-06	24-May-06	SP114	0506	<u></u>	100 ug/l		
Aluminum, Dissolved	7429-90-5	EPA 200.7	J29436-3F	02-May-06	24-May-06	SP219	0208	<u>0</u>	100 ug/l		

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DATA USABILITY SUMMARY REPORT FOR MAY 2006 WASTE SAMPLING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Two waste samples were collected from the Former Sinclair Refinery Site in Wellsville, New York on May 15, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on May 16, 2006. These samples were analyzed by Accutest for percent solids using the USEPA method 160.3. One waste sample was analyzed by Accutest for toxicity characteristic leaching procedure (TCLP) volatile organic compounds (VOCs) using the USEPA SW-846 method 8260B; the total metals arsenic and iron using the USEPA SW-826 method 6010B; TCLP arsenic using the USEPA SW-846 method 6010B; and corrosivity, reactivity, and ignitability using the USEPA SW-846 methods specified in Chapter 7. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The waste samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J30626) was received by On-Site within 18 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, internal standard responses, laboratory control sample (LCS) recoveries, laboratory method blank and TCLP extraction blank contamination, instrument calibrations and verifications, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" – not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" – estimated at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in

laboratory data resulting from data validation. However, the laboratory data did not require qualification resulting from data validation for these samples. Therefore, there were no changes to the laboratory data presented in the attached table.

TCLP VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the TCLP volatile method 8260B analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and TCLP extraction blank contamination
- Internal standard responses
- · Quantitation limits
- Sample result identifications
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the TCLP volatile data presented by Accutest were 100% complete with all data considered usable and valid.

TOTAL METAL AND TCLP METAL ANALYSIS

The following items were reviewed for compliancy in the metals method 6010B analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank and TCLP extraction blank contamination
- ICP serial dilutions
- Quantitation limits

- Sample result identifications
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the metals data presented by Accutest were 100% complete with all data considered usable and valid.

CORROSIVITY, IGNITABILITY, AND REACTIVITY ANALYSIS

The following items were reviewed for compliancy in the waste characteristic analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Laboratory method blank contamination
- Quantitation limits
- Sample result identifications
- Data Completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the waste characteristic data presented by Accutest were 100% complete with all data considered usable and valid.

Analyta	CESNO	casno Method	Labsampid	Labsampid Date Sampled Validation Date	Validation Date	Sample	Location	Result Coc	Location Result Code DL Units Valid Result Valid Code
Iron, Total	7439-89-6	7439-89-6 SW846 6010B	130626-1	15-May-06	90-Jul-06	FPSLUDGE	0208	490000	120 mg/kg
Arsenic, Total	7440-38-2	7440-38-2 SW846 6010B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0506	066	25 ma/ka
Solids, Percent		EPA 160.3 M	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	9050	80.9	· %
(Flashpoint)		SW846 CHAP7	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	9050	^∩ 0	Deg. F
Sulfide Reactivity		SW846 CHAP7	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0206	0.0	60 mg/kg
1,4-Dichlorobenzene	106-46-7	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	9050	∩ 0	0.005 mg/l
1,2-Dichloroethane	107-06-2	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0200	_ ∩ 0	0.005 mg/l
Chlorobenzene	108-90-7	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	9050	⊃ 0	0.005 mg/l
Tetrachloroethene	127-18-4	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0200	∩ o	0.005 mg/l
Carbon tetrachloride 56-23-5	56-23-5	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0200	∩ o	0.005 mg/l
Chloroform	67-66-3	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0506	0.0	0.005 mg/l
Benzene	71-43-2	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0200	0	0.005 mg/l
Vinyl chloride	75-01-4	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0506	∩ 0	0.025 mg/l
1,1-Dichloroethene	75-35-4	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0206	∩ o	0.005 mg/l
2-Butanone (mek)	78-93-3	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0206	∩ o	0.05 mg/l
Trichloroethene	79-01-6	SW846 8260B	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0206	∩ o	0.005 mg/l
Cyanide Reactivity		SW846 CHAP7	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	0206	o	6.2 mg/kg
Corrosivity as pH		SW846 CHAP7	J30626-1	15-May-06	03-Jul-06	FPSLUDGE	9050	∩ o	
Solids, Percent		EPA 160.3 M	J30626-2	15-May-06	03-Jul-06	CAKESLUDGE	9050	8	%
Arsenic, Total	7440-38-2	7440-38-2 SW846 6010B	J30626-1A	15-May-06	03-Jul-06	FPSLUDGE	9050	∩ o	0.5 mg/l

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DATA USABILITY SUMMARY REPORT FOR JUNE 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on June 1, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on June 2, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 3.4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J32037) was received by On-Site within 21 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" – estimated at the value given, and

"R" – unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in

laboratory data resulting from data validation. However, the laboratory data did not require qualification resulting from data validation for these samples. Therefore, there were no changes to the laboratory data presented in the attached table.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS recoveries. It was noted that the spiked recoveries for the compounds cis-1,2-dichloroethene (139%R; QC limit 69-133%R) and vinyl chloride (162%R; QC limit 56-159%R) exceeded QC acceptance limits during the spiked analysis of sample SP114-0606. However, validation qualification of the unspiked sample SP114-0606 was not required due to large concentrations of these compounds in the unspiked sample and the absence of the analysis of a MSD.

Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample

- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

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Ę	•	EPA 150.1	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	6.64	ns	
Aluminum, Total	7429-90-5	EPA 200.7	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	∩ o	100 ua/l	
Iron, Total	7439-89-6	EPA 200.7	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	43400	100 ug/l	
Lead, Total	7439-92-1	EPA 200.7	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	က	3:ua/l	
Nickel, Total	7440-02-0	EPA 200.7	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0	40 ug/l	
: : : : : :	7440-38-2	EPA 200.7	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	90.2	8 ug/l	
国	7440-47-3	EPA 200.7	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	<u>∩</u> °	25:ug//	
Zinc, Total	7440-66-6	EPA 200.7	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	<u></u> 0	20 ug/l	
Ethylbenzene	100-41-4	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	7.5	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	00	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0.0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0	1.ug/l	
Toluene	108-88-3	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	6.2	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0.56.J	1.ug/l	
Dibromochloromethane	124-48-1	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0.0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	12	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	55.3	1 ug/l	
92.0	156-60-5	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	-	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	∩ °	1 ug/I	
Carbon tetrachloride	56-23-5	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	∩ o	1 ug/I	
Chloroform	67-66-3	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0.0	1 ug/I	
Benzene	71-43-2	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	82.5	1.ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	ю С	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	O 0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	Ω 0	1.ug/l	
Chloroethane	75-00-3	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0.66 J	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J32037-1	01-Jun-06	03~Jul-06	SP114	9090	85.7	2 ug/l	
chloride	75-09-2	EPA 624	J32037-1	01-Jun-06	03~Jul-06	SP114	9090	n o	1 ug/l	
	75-25-2		J32037-1	01-Jun-06	03-Jul-06	SP114	9090	∩ o	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	O 0	1 ug/l	
1,1-Dichloroethane	75-34-3		J32037-1	01-Jun-06	03-Jul-06	SP114	9090	16.7	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	∩ o	1:ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	O 0	2 ug/l	
1,2-Dichloropropane	78-87-5		J32037-1	01-Jun-06	03-Jul-06	SP114	9090	O 0	l'ou l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	∩ o	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	∩°	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J32037-1	01-Jun-06	03-Jul-06	SP114	9090	0.0	1 ug/l	
4.5 Direkorokon 1000	05 E0 1	FDA 634	132037-1	-1-0	03-1-1-06	SP114	OROR	10	70.7	

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Analyte	CESSIFO.	Method	(Tepsamb)	Date Sampled	Verlidation Date	Sample	Location	Result Code	RL Units Valid Result Valid Gode
Ethylbenzene	100-41-4	EPA 624	J32037-2	. 01-Jun-06	03-Jul-06	SP217	9090	Ω°	1.ug/l
cis-1,3-Dichloropropene	10061-01-5		J32037-2	01-Jun-06	03-Jul-06	SP217	9090	00	1 ug/l
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	.	01-Jun-06	03-Jul-06	SP217	9090	0	1 ug/l
1,4-Dichlorobenzene	106-46-7	EPA 624	i	01-Jun-06	03-Jul-06	SP217	9090	0.0	1 ug/l
1,2-Dichloroethane	107-06-2	EPA 624	I	01-Jun-06	03-Jul-06	SP217	9090	0	1 ug/l
Toluene	108-88-3	EPA 624	. .	01-Jun-06	03-Jul-06	SP217	9090	0	1 ug/l
Chlorobenzene	108-90-7	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	0	1 ug/l
Dibromochloromethane	124-48-1	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	0.0	1 ug/l
Tetrachloroethene	127-18-4	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	0 0	1.ug/l
Xylenes (total)	1330-20-7	EPA 624		01-Jun-06	03~Jul-06	SP217	9090	0.0	1 ug/l
cis-1,2-Dichloroethene	156-59-2	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	S.	1 ug/l
trans-1,2-Dichloroethene	156-60-5	EPA 624	:	01-Jun-06	03-Jul-06	SP217	9090	U o	1 ug/l
1,3-Dichlorobenzene	541-73-1	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	0	1 ug/l
Carbon tetrachloride	56-23-5	EPA 624	:	01-Jun-06	03-Jul-06	SP217	9090	Ω°	1 ug/l
Chloroform	67-66-3	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	1.3	1 ug/l
Benzene	71-43-2	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	0.21:J	1 ug/l
1,1,1-Trichloroethane	71-55-6	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	1.3	1 ug/l
Methyl bromide	74-83-9	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	∩ o	1 ug/l
Chloromethane	74-87-3	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	∩ °	1 ug/l
Chloroethane	75-00-3	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	∩ o	1 ug/l
Vinyl chloride	75-01-4	EPA 624	'	01-Jun-06	03-Jul-06	SP217	9090	1.5.J	2 ug/l
Methylene chloride	75-09-2	EPA 624	J32037-2	01-Jun-06	03-Jul-06	SP217	9090	0.0	1 ug/l
Bromoform	75-25-2	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	O O	1 ug/l
Bromodichloromethane	75-27-4	EPA 624		01-Jun-06	90-JnF-60	SP217	9090	0.3 J	1 ug/l
1,1-Dichloroethane	75-34-3	EPA 624		01-Jun-06	90-Jnr-60	SP217	9090	4.2	1 ug/l
1,1-Dichloroethene	75-35-4	EPA 624		01-Jun-06	90-JnC-60	SP217	9090	Ωo	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	O.O	2 ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	٠	01-Jun-06	03-Jul-06	SP217	9090	O.O	2 ug/l
1,2-Dichloropropane	78-87-5	EPA 624		01-Jun-06	03-Jul-06	SP217	9090	O O	1 ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J32037-2	01-Jun-06	03-Jul-06	SP217	9090	O 0	1 ug/l
Trichloroethene	79-01-6	EPA 624		01-Jun-06	03-Jul-06	SP217	9090) 	1.ug/l
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J32037-2	01-Jun-06	03-Jul-06	SP217	9090	U 0	1:ug/l
1,2-Dichlorobenzene	95-50-1	EPA 624	J32037-2	01-Jun-06	03-Jul-06	SP217	9090	n	1 ug/l

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		75.000						Result Loge	typem code at ours which descript code	CHINE PLANES
ቼ.		EPA 150.1	J32037-3	01-Jun-06	03~Jul-06	SP219	9090	7.22	ns	
Cyanide	57-12-5	EPA 335.3	J32037-3	01-Jun-06	03-Jul-06	SP219	9090) 0	0.01 mg/l	
Aluminum, Total	7429-90-5	EPA 200.7	J32037-3	01-Jun-06	03-701-06	SP219	9090	n o	100 ug/l	
Iron, Total	7439-89-6	EPA 200.7	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0 0	100 ua/l	
Lead, Total	7439-92-1	EPA 200.7	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0.0	3.uo/l	
Nickel, Total	7440-02-0	EPA 200.7	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	00	40:ua/l	Ĭ .
Arsenic, Total	7440-38-2	EPA 200.7	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	n o	₽ ng/l	
Chromium, Total	7440-47-3	EPA 200.7	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0 0	25 ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0	20 ug/l	
Oil And Grease		EPA 1664A	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0.0	5.2 mg/l	
Ethylbenzene	100-41-4	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	∩ °	1.ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	00	1 ug/l	
trans-1,3-Dichloropropene	10061-02-6	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0 0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J32037-3	01-Jun-06	93-Jul-06	SP219	9090	0	1 ug/l	:
1,2-Dichloroethane	107-06-2	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0	1 ug/l	
Toluene	108-88-3	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0.0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0 0	1.ug/l	
Dibromochioromethane	124-48-1	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	Ωo	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0 0	1.ug/l	:: :
Xylenes (total)	1330-20-7	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0	1 ug/l	?
trans-1,2-Dichloroethene	156-60-5		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	O o	1 ug/l	:
1,3-Dichlorobenzene	541-73-1		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	n o	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	∩.o	1 ug/l	
Chloroform	67-66-3		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0.76 J	1 ug/l	
Вепzепе	71-43-2		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	٥٥	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0.37.J	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0 0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0	1 ug/l	
Chloroethane	75-00-3		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	O o	1 ug/l	:
Vinyl chloride	75-01-4		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0.5 J	2 ug/l	
Methylene chloride	75-09-2		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0.0	1 ug/l	
Bromoform	75-25-2	EPA 624	J32037-3	01-Jun-06	93-Jul-06	SP219	9090	O.O	1 ug/l	
Bromodichloromethane	75-27-4		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	O.O	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	1.9	1.ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	Ω°	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	O O	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0 0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	O o	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	0 0	1 ug/l	
Trichloroethene	79-01-6		J32037-3	01-Jun-06	03-Jul-06	SP219	9090	∩ 0	1 ug/l	
1122-Tetrachloroethane	79-34-5	EPA 624	J32037-3	01-Jun-06	03-Jul-06	SP219	9090	∩ °	1.10/	

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e Cesno Method Labsampid Date Sampled (vaida)	zene 95-50-1 EPA 624 J32037-3 01-Jun-06 03-
lyte casno Wethod Labsampid Data Sampled Validal	enzene 95-50-1 EPA 624 J32037-3 01-Jun-06 03
natyle casno Method Labsampid Date Sampled Validal	obenzene 95-50-1 EPA 624 J32037-3 01-Jun-06 03-
Analyte casho Method [Labsampid Data Sampled Validal	orobenzene 95-50-1 EPA 624 J32037-3 01-Jun-06 03-
Anatyle casho Method Labsampid Date Sampled Validal	chlorobenzene 95-50-1 EPA 624 J32037-3 01-Jun-06 03-
Anatyre casno Method Labsampid Date Sampled (valida)	Dichlorobenzene 95-50-1 EPA 624 J32037-3 01-Jun-06 03-
Analyte casno Method Labsampid Data Sambled Validal	2-Dichlorobenzene 95-50-1 EPA 624 J32037-3 01-Jun-06 03-
Anatyle cesno Method Labsampid Date Sampled Validat	95-50-1 EPA 624 J32037-3 01-Jun-06

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Ethylbenzene	100-41-4	EPA 624	J32037-4	01-Jun-06	03-Jul-06	¥	TRIP BLANK	ე 0	S	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J32037-4	01-Jun-06	03-Jul-08	¥	TRIP BLANK	0	1.ug//	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J32037-4	01-Jun-06	03-Jul-06		TRIP BLANK	0	1 ug/	
1,4-Dichlorobenzene	106-46-7	EPA 624	J32037-4	01-Jun-06	03-Jul-06		TRIP BLANK	00	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	0	1:ug/l	
Toluene	108-88-3	EPA 624	J32037-4	01-Jun-06	03-Jul-06		TRIP BLANK	0.0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	0.0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J32037-4	01-Jun-06	03-Jul-06		TRIP BLANK	∩ 0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J32037-4	01-Jun-06	03-Jul-06		TRIP BLANK	0.0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	0	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J32037-4	01-Jun-06	03-Jul-06		TRIP BLANK	0.0	1 ug/l	:
1,3-Dichlorobenzene	541-73-1	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J32037-4	01-Jun-06	03-Jul-06	ž	TRIP BLANK	0.0	1 ug/l	
Chloroform	67-66-3	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	_ 0	1.ug/l	
Benzene	71-43-2	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	0.0	1 ug/l	
1,1,1-Trichloroethane	71-55-6		J32037-4	01-Jun-06	03-Jul-06	¥	TRIP BLANK	0	1 ug/l	
Methyl bromide	74-83-9		J32037-4	01-Jun-06	03-Jul-06	ž	TRIP BLANK	<u>∩</u>	1 ug/l	
Chloromethane	74-87-3		J32037-4	01-Jun-06	03~Jul-06	¥	TRIP BLANK	0	1 ug/l	: : : : : : : : : : : : : : : : : : :
Chloroethane	75-00-3		J32037-4	01-Jun-06	03-Jul-06	¥	TRIP BLANK	0	1 ug/l	
Vinyl chloride	75-01-4		J32037-4	01-Jun-06	93-Jul-06	Š	TRIP BLANK	0	2:ug/l	
Methylene chloride	75-09-2		J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	ე 0	1 ug/l	
Bromoform	75-25-2	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	_ 0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J32037-4	01-Jun-06	03-Jul-06	¥	TRIP BLANK	0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	0	1 ug/l	
1,1-Dichloroethene	75-35-4		J32037-4	01-Jun-06	03-Jul-06	X N	TRIP BLANK	<u>∩</u>	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J32037-4	01-Jun-06	03-Jul-06	¥	TRIP BLANK	0	2 ug/l	
Dichlorodifluoromethane	75-71-8		J32037-4	01-Jun-06	03-Jul-06	¥	TRIP BLANK	<u>∩</u>	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J32037-4	01-Jun-06	03-Jul-06	¥	TRIP BLANK	0.0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J32037-4	01-Jun-06	90-Jul-60	¥	TRIP BLANK	0	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J32037-4	01-Jun-06	03-Jul-06	¥	TRIP BLANK	0	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	∩ 0	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J32037-4	01-Jun-06	03-Jul-06	Š	TRIP BLANK	0	1 ug/l	
:Aluminum, Dissolved	7429-90-5	EPA 200.7	J32037-1F	01-Jun-06	03-Jul-06	SP114	9090	⊃ 0	100 ug/l	
Aluminum Dissolved	7429-90-5	EPA 200.7	J32037-3F	01-Jun-06	03-Jul-06	SP219	9090	<u>∩</u>	100 ug/l	

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DATA USABILITY SUMMARY REPORT FOR INTERIM GROUNDWATER MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Fourteen groundwater samples, three field QC equipment blanks, and three field QC trip blanks were collected from the Former Sinclair Refinery Site in Wellsville, New York on June 13, 2006 through June 21, 2006. These samples were received by Accutest Laboratories (Accutest) within one to two days of collection on June 15, 2006, June 17, 2006, and June 22, 2006. These samples were analyzed by Accutest for the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, and total xylenes (BTEX), cis-1,2-dichloroethene, and vinyl chloride using the USEPA SW-846 8260B analytical method; nitroaromatic compounds using the USEPA SW-846 8270C analytical method; and arsenic using the USEPA SW-846 6010B analytical method. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 3-5°C. All samples were received intact and in good condition at Accutest.

The analytical data packages generated by Accutest (Accutest Job #s J33288, J33534, and J33914) were received by On-Site within 20-23 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip and equipment blank contamination, instrument calibrations, internal standard responses, laboratory duplicate precision, field duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" – not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" – unusable value.

The validated laboratory data were tabulated and are presented in the attached tables with the "Valid Result" and "Valid Code" columns representing changes in

laboratory data resulting from data validation. Therefore, the nondetected aniline results for samples MW10-0606 and EB2-0606 were considered estimated and qualified "UJ" in the "Valid Code" column as a result from data validation.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 8260B analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and equipment / trip blank contamination
- Internal standard responses
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

SEMIVOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the semivolatile method 8270C analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and equipment blank contamination
- Internal standard responses
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of continuing calibrations.

All continuing calibration compounds were compliant with minimum relative response factors (RRFs) of 0.05 and percent differences (%Ds) within ±25% with the exception of aniline (31.6%D) in the continuing calibration associated with samples MW10-0606 and EB2-0606. Therefore, the aniline results for these samples which were nondetects, were considered estimated and qualified "UJ".

As a result, the nitroaromatic data presented by Accutest were 100% complete with all data considered usable and valid.

METALS ANALYSIS

The following items were reviewed for compliancy in the arsenic method 6010B analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank and equipment blank contamination
- ICP serial dilutions
- Field duplicate precision
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the arsenic data presented by Accutest were 100% complete with all data considered usable and valid.

71870	Casho	Nethod	Labsaring	Date gampled to	Validation Date	Sample	Location	Result Code RL Units		Valid Result Valid Gode
Arsenic, Total	7440-38-2	SW846 6010B	J33288-1	13-Jun-06	15-Aug-06	6MM	9090	11		
Ethylbenzene	100-41-4	SW846 8260B	J33288-1	13-Jun-06	15-Aug-06	6MM	9090	0.0	1 ug/	
Toluene	108-88-3	SW846 8260B	J33288-1	13-Jun-06	15-Aug-06	6ММ	9090	ΩO	1 ug/l	
Xylene (total)	1330-20-7	SW846 8260B	J33288-1	13-Jun-06	15-Aug-06	6MM	9090	ΠO	1 ug/l	
Benzene	71-43-2	SW846 8260B	J33288-1	13-Jun-06	15-Aug-06	6MW	9090	0.58 J	1 ug/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33288-2	13-Jun-06	15-Aug-06	MW55	9090	61.5	8 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33288-2	13-Jun-06	15-Aug-06	MW55	9090	49.1	1 ng/	
Toluene	108-88-3	SW846 8260B	J33288-2	13-Jun-06	15-Aug-06	MW55	9090	11.7	1 ug/	
Xylene (total)	1330-20-7	SW846 8260B	J33288-2	13-Jun-06	15-Aug-06	MW55	9090	48.2	1 ug/l	
Benzene	71-43-2	SW846 8260B	J33288-2	13-Jun-06	15-Aug-06	MW55	9090	28.4	1,gn:	
Arsenic, Total	7440-38-2	SW846 6010B	J33288-3	13-Jun-06	15-Aug-06	MW69A	9090	48.2	8 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33288-3	13-Jun-06	15-Aug-06	MW69A	9090	0.54.J	1 ug/	
Тошепе	108-88-3	SW846 8260B	J33288-3	13-Jun-06	15-Aug-06	MW69A	9090	0.4.)	1 ug/l	
Xylene (total)	1330-20-7	SW846 8260B	J33288-3	13-Jun-06	15-Aug-06	MW69A	9090	0.0	1,gn:	
cis-1,2-Dichloroethene	156-59-2	SW846 8260B	J33288-3	13-Jun-06	15-Aug-06	MW69A	9090	3.7	1 ug/l	
Benzene	71-43-2	SW846 8260B	J33288-3	13-Jun-06	15-Aug-06	MW69A	9090	56.9	1 ug/l	
Vinyl chloride	75-01-4	SW846 8260B	J33288-3	13-Jun-06	15-Aug-06	MW69A	9090	9.7	1 ug/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33288-4	13-Jun-06	15-Aug-06	EB1	9090	0.0	8 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33288-4	13-Jun-06	15-Aug-06	EB1	9090	0.0	1 ug/l	
Toluene	108-88-3	SW846 8260B	J33288-4	13-Jun-06	15-Aug-06	EB1	9090	O 0	1 ug/l	
Xylene (total)	1330-20-7	SW846 8260B	J33288-4	13-Jun-06	15-Aug-06	EB1	9090	Πo	1.ug/l	
cis-1,2-Dichloroethene	156-59-2	SW846 8260B	J33288-4	13-Jun-06	15-Aug-06	EB1	9090	0.0	1 ug/I	
Benzene	71-43-2	SW846 8260B	J33288-4	13-Jun-06	15-Aug-06	EB1	9090	Π0	1 ug∕l	
Vinyl chloride	75-01-4	SW846 8260B	J33288-4	13-Jun-06	15-Aug-06	EB 1	9090	∩ o	1 ug/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33288-5	14-Jun-06	15-Aug-06	MW11	9090	27.7	8 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33288-5	14-Jun-06	15-Aug-06	MW11	9090	0.0	1 ng/	
Toluene	108-88-3	SW846 8260B	J33288-5	14-Jun-06	15-Aug-06	MW11	9090	0.0	1.ug/l	
Xylene (total)	1330-20-7	:	J33288-5	14-Jun-06	15-Aug-06	MW11	9090	0.0	1.ug/l	
Benzene	71-43-2	SW846 8260B	J33288-5	14-Jun-06	15-Aug-06	MW11	9090	0.0	1.gu/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33288-6	14-Jun-06	15-Aug-06	MW78	9090	26	8.ug/	
Ethylbenzene	100-41-4	SW846 8260B	J33288-6	14-Jun-06	15-Aug-06	MW78	9090	Π0 .	1 ug/	
Toluene	108-88-3	SW846 8260B	J33288-6	14-Jun-06	15-Aug-06	MW78	9090	∩ o	1 ug/l	
Xylene (total)	1330-20-7	SW846 8260B	J33288-6	14-Jun-06	15-Aug-06	MW78	9090	n o	ا اس	
Benzene	71-43-2	SW846 8260B	J33288-6	14-Jun-06	15-Aug-06	MW78	9090	4	1.gu	:
Ethylbenzene	100-41-4	SW846 8260B	J33288-7	14-Jun-06	15-Aug-06	Š	TRIP BLANK	∩ 0	1 ug/l	
Toluene	108-88-3	SW846 8260B	J33288-7	14-Jun-06	15-Aug-06	Š	TRIP BLANK	Π.0	1 ug/l	
Xylene (total)	1330-20-7	1330-20-7 SW846 8260B	J33288-7	14-Jun-06	15-Aug-06	ONK C	TRIP BLANK	∩ 0	1 1/gu	
Benzene	71-43-2	SW846 8260B	J33288-7	14-Jun-06	15-Aug-06	UNK	TRIP BLANK	Π 0	1.ug/l	

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2-Aminophenol 6 Ethylbenzene 7 Toluene (otal) 8 Benzene 7 Azobenzene 4 Azobenzene 4 Azoxybenzene 6 Aniline 6 2-Aminophenol 6 Ethylbenzene 7 Toluene 7	95-55-6 100-41-4 108-88-3 1330-20-7 77-1-43-2 7440-38-2 7440-38-2 103-33-3 95-55-6 98-95-3 100-41-4 108-88-3 1330-20-7 77-1-43-2 62-53-3 98-95-3	SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8270C SW846 8260B SW846 8260B SW846 8260B	J33534-3 J33534-3 J33534-3 J33534-3 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1	15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06	15-Aug-06 15-Aug-06 15-Aug-06 15-Aug-06 15-Aug-06	OW3 OW3 OW3	9090 9090	0 U 8.3 22	0 U 20.ug/l 8.3 1.ug/l 22 1.ug/l	
_ 0 0	00-41-4 08-88-3 330-20-7 11-43-2 1440-38-2 103-33-3 195-48-7 12-53-3 18-55-6 100-41-4 108-88-3 1330-20-7 11-43-2 12-53-3	SW846 8260B SW846 8260B SW846 8260B SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B	J33534-3 J33534-3 J33534-3 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1	15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06	15-Aug-06 15-Aug-06 15-Aug-06 15-Aug-06	OW3 OW3	9090	8.3	1 ug/l 1 ug/l	
_ 0 0	08-88-3 1330-20-7 1440-38-2 103-33-3 195-48-7 12-53-3 15-55-6 18-55-6 100-41-4 108-88-3 1330-20-7 11-43-2 13-53-3 13-53-3	SW846 8260B SW846 8260B SW846 6010B SW846 6010B SW846 8270C SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B	J33534-3 J33534-3 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1	15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06	15-Aug-06 15-Aug-06 15-Aug-06	OW3 OW3	9090	22	1.ua/l	
_ 0 0	330-20-7 1-43-2 440-38-2 103-33-3 195-48-7 12-53-3 15-55-6 100-41-4 108-88-3 1330-20-7 11-43-2 13-53-3 13-53-3	SW846 8260B SW846 8260B SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B	J33534-3 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1	15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06	15-Aug-06 15-Aug-06	OW3				
Total sne nzene henol sene zene	1-43-2 140-38-2 103-33-3 185-48-7 12-53-3 16-55-6 18-95-3 100-41-4 108-88-3 1330-20-7 11-43-2 13-53-3 18-95-3	SW846 8260B SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260C	J33534-3 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1	15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06	15-Aug-06		9090	52.4	1'ag/l	
,, Total izene enzene ophenol nzene nzene 9	740-38-2 103-33-3 195-48-7 12-53-3 15-55-6 18-95-3 100-41-4 108-88-3 1330-20-7 71-43-2 22-53-3 38-95-3	SW846 6010B SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B	J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1	15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06		OW3	9090	7.9	1'gn1	
rzene enzene ophenol rzene enzene enzene enzene (total)	03-33-3 195-48-7 12-53-3 15-55-6 18-95-3 100-41-4 108-88-3 1330-20-7 71-43-2 22-53-3 38-95-3	SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260C	J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1	15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06	15-Aug-06	ow1	9090	80.4	8 ug/l	
enzene ophenol nzene nzene enzene s	195-48-7 12-53-3 18-55-6 18-95-3 100-41-4 108-88-3 1330-20-7 71-43-2 25-53-3 38-95-3	SW846 8270C SW846 8270C SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260C	J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1 J33534-1	15-Jun-06 15-Jun-06 15-Jun-06 15-Jun-06	15-Aug-06	ow1	9090	л o	5 ug/l	
ophenol nzene nzene s	12-53-3 15-55-6 18-95-3 100-41-4 108-88-3 1330-20-7 11-43-2 22-53-3 38-95-3	SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8270C	J335341 J335341 J335341 J335341 J335341 J335341 J335341	15-Jun-06 15-Jun-06 15-Jun-06	15-Aug-06	ow1	9090	Π0	5.ug/l	
	15-55-6 18-95-3 100-41-4 108-88-3 1330-20-7 71-43-2 22-53-3 38-95-3	SW846 8270C SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8270C	J335341 J335341 J335341 J335341 J335341 J335341	15-Jun-06 15-Jun-06	15-Aug-06	OW1	9090	Π 0	2 ug/l	
	18-95-3 100-41-4 108-88-3 1330-20-7 71-43-2 32-53-3 38-95-3	SW846 8270C SW846 8260B SW846 8260B SW846 8260B SW846 8260C SW846 8270C SW846 8270C	J33534-1 J33534-1 J33534-1 J33534-1 J33534-2	15-Jun-06	15-Aug-06	ow1	9090	0.0	20:ug/l	
	108-88-3 1330-20-7 71-43-2 52-53-3 38-95-3	SW846 8260B SW846 8260B SW846 8260B SW846 8260B SW846 8270C SW846 8270C	J33534-1 J33534-1 J33534-1 J33534-1		15-Aug-06	OW1	9090	Π 0	2:ug/l	
	08-88-3 1330-20-7 71-43-2 52-53-3 98-95-3	SW846 8260B SW846 8260B SW846 8260B SW846 8270C SW846 8270C	J33534-1 J33534-1 J33534-1 J33534-2	15-Jun-06	15-Aug-06	ow1	9090	0.48 J	1'ng/l	
	330-20-7 71-43-2 52-53-3 98-95-3	SW846 8260B SW846 8260B SW846 8270C SW846 8270C	J33534-1 J33534-1 J33534-2	15-Jun-06	15-Aug-06	ow1	9090	2.7	1'ng/l	
••	71-43-2 32-53-3 38-95-3		J33534-1 J33534-2	15-Jun-06	15-Aug-06	ow1	9090	1.6	1'ag/l	
Benzene	32-53-3 38-95-3		J33534-2	15-Jun-06	15-Aug-06	ow1	9090	39.4	1'ng/l	
Aniline	38-95-3			15-Jun-06	15-Aug-06	MW70	9090	7690	200 ug/l	
Nitrobenzene			J33534-2	15-Jun-06	15-Aug-06	MW70	9090	3130	200 ug/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33534-2	15-Jun-06	15-Aug-06	MW70	9090	32.6	8 ug/l	
Azobenzene	103-33-3	SW846 8270C	J33534- 2	15-Jun-06	15-Aug-06	MW70	9090	0	5:ug/l	
Azoxybenzene	495-48-7	SW846 8270C	J33534-2	15-Jun-06	15-Aug-06	MW70	9090	0	5 ug/l	
2-Aminophenol	95-55-6	SW846 8270C	J33534-2	15-Jun-06	15-Aug-06	MW70	9090	0	20:ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33534- 2	15-Jun-06	15-Aug-06	MW70	9090	18	1 ug/l	: •
Toluene	108-88-3	SW846 8260B	J33534-2	15-Jun-06	15-Aug-06	MW70	9090	40.5	1'ng/l	
Xylene (total)	1330-20-7	SW846 8260B	J33534- 2	15-Jun-06	15-Aug-06	MW70	9090	77.6	1 ug/l	
Benzene	71-43-2	SW846 8260B	J33534- 2	15-Jun-06	15-Aug-06	MW70	9090	11.4	1 ug/l	
Aniline	62-53-3	SW846 8270C	J33534-3	15-Jun-06	15-Aug-06	OW3	9090	4200	400 ug/l	
Nitrobenzene	98-95-3	SW846 8270C	J33534-3	15-Jun-06	15-Aug-06	OW3	9090	12300	400 ug/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33534-3	15-Jun-06	15-Aug-06	OW3	9090	22	8 ug/l	
Azobenzene	103-33-3	SW846 8270C	J33534-3	15-Jun-06	15-Aug-06	OW3	9090	0.0	5 ug/l	
Azoxybenzene 4	495-48-7	SW846 8270C	J33534-3	15-Jun-06	15-Aug-06	OW3	9090	∩ °	5:ug/l	
Aniline	62-53-3	SW846 8270C	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	4850	800 ng/l	
Nitrobenzene	98-95-3	SW846 8270C	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	15200	800 ng/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	21.8	8 ng/l	
Azobenzene	103-33-3	SW846 8270C	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	0.0	5. ug/l	
Azoxybenzene 4	495-48-7	SW846 8270C	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	0.0	5 ug/l	
2-Aminophenol	95-55-6	SW846 8270C	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	Π0	20 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	8.5	1 ug/l	
Tolnene	108-88-3		J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	21.7	1 ug/l	
Xylene (total)	1330-20-7	1330-20-7 SW846 8260B	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	52.9	1 ug/l	

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Analyte	casno	Analyte casno Method Labsampid	Labsampid	Date Sampled	Date Sampled Validation Date	Sample	Location	Result Code	9 RL Units valid Resuff	alid Resutt	Valld Code
Benzene	71-43-2	71-43-2 SW846 B260B J33	J33534-4	15-Jun-06	15-Aug-06	DUP1	9090	7.8	1 ugv/	~ · · · ·	
Azobenzene	103-33-3	103-33-3 SW846 8270C J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	⊃ °	5 ug/l		
Azoxybenzene	495-48-7	495-48-7 SW846 8270C J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	⊃ °	5 ug/l		
Aniline	62-53-3	62-53-3 SW846 8270C J33	J33534-5	15-Jun-06	15-Aug-06	EB3	0606	> 0	2 ug/l	:	
2-Aminophenol 95-55-6	92-22-6	SW846 8270C J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	0	20 ug/l		
Nitrobenzene	98-95-3	98-95-3 SW846 8270C J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	⊃ °	2 ug/l	:	
Arsenic, Total	7440-38-2	7440-38-2 SW846 6010B J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	0	/gn 8		
Ethylbenzene	100-41-4	100-41-4 SW846 8260B J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	⊃ •	1/gul		
Toluene	108-88-3	108-88-3 SW846 8260B J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	0	1 ug/l	ö	:
Xylene (total)	1330-20-7	1330-20-7 SW846 8260B J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	⊃ •	1 ug/l		
Benzene	71-43-2	71-43-2 SW846 8260B J33	J33534-5	15-Jun-06	15-Aug-06	EB3	9090	⊃ •	1 ug/l	:	:
Ethylbenzene	100-41-4	100-41-4 SW846 8260B J33	J33534-6	15-Jun-06	15-Aug-06	ž	TRIP BLANK	0	1 ug/l		
Toluene	108-88-3	108-88-3 SW846 8260B J33	J33534-6	15-Jun-06	15-Aug-06	N Y	TRIP BLANK	0	1 ug/l	· · · · ·	
Xylene (total)	1330-20-7	1330-20-7 SW846 8260B J33	J33534-6	15-Jun-06	15-Aug-06	N Y Y	TRIP BLANK	∩ o	1 ug/l		:
Benzene	71-43-2	71-43-2 SW846 8260B J33	J33534-6	15-Jun-06	15-Aug-06	S N S	TRIP BLANK	0	1 ug/l		:

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Analyte	casno	casno Method Labsampid Data Sampled	Labsampid		Validation Date Sample	Sample	Location	Result Code Rt. Units	RL Units V	Valid Result Valid Code
Arsenic, Total	7440-38-2	7440-38-2 SW846 6010B			15-Aug-06	96MM		38.2	8 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33914-1	20-Jun-06	15-Aug-06	96MM	9090	00	1 ug/l	
Toluene	108-88-3	SW846 8260B	J33914-1	20-Jun-06	15-Aug-06	MW96	9090	0.31 J	1 ug/l	
Xylene (total)	1330-20-7	SW846 8260B	J33914-1	20-Jun-06	15-Aug-06	96MM	9090	Πo	1 ug/l	
Benzene	71-43-2	SW846 8260B	J33914-1	20-Jun-06	15-Aug-06	96MM	9090	1.6	1 ug/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33914-2	20-Jun-06	15-Aug-06	MW7	9090	16.8	8 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33914-2	20-Jun-06	15-Aug-06	MW7	9090	0.34 J	1 ug/l	
Toluene	108-88-3	SW846 8260B	J33914-2	20-Jun-06	15-Aug-06	MW7	9090	2.3	1.ug/l	
Xylene (total)	1330-20-7	1330-20-7 SW846 8260B	J33914-2	20-Jun-06	15-Aug-06	MW7	9090	3.4	1 ug/l	
Benzene	71-43-2	SW846 8260B	J33914-2	20-Jun-06	15-Aug-06	MW7	9090	3.3	1 ug/l	
Arsenic, Total	7440-38-2	7440-38-2 SW846 6010B	J33914-3	21-Jun-06	15-Aug-06	MW71	9090	n o	8 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33914-3	21-Jun-06	15-Aug-06	MW71	9090	n o	1 ug/l	
Toluene	108-88-3	SW846 8260B	J33914-3	21-Jun-06	15-Aug-06	MW71	9090	n o	1 ug/l	
Xyiene (total)	1330-20-7	SW846 8260B	J33914-3	21-Jun-06	15-Aug-06	MW71	9090	n o	1 ug/l	
Benzene	71-43-2	SW846 8260B	J33914-3	21-Jun-06	15-Aug-06	MW71	9090	nο	1 ug/l	
Azobenzene	103-33-3	SW846 8270C	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	⊃ °	5.2 ug/l	
Azoxybenzene	495-48-7	SW846 8270C	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	n o	5.2 ug/l	
2-Aminophenol	95-55-6	SW846 8270C	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	⊃ °	21 ug/l	:
Arsenic, Total	7440-38-2	SW846 6010B	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	21.9	8 ug/l	
Aniline	62-53-3	SW846 8270C	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	0.0	2.1 ug/l	3
Nitrobenzene	98-95-3	SW846 8270C	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	0 0	2.1 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	0.0	1 ug/l	
Toluene	108-88-3	SW846 8260B	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	0 0	1 ug/l	
Xylene (total)	1330-20-7	SW846 8260B	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	0.0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2		J33914-4	21-Jun-06	15-Aug-06	MW10	9090	∩.0	1 ug/l	
Benzene	71-43-2	SW846 8260B	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	0.62 J	1 ug/l	
Vinyl chloride	75-01-4	SW846 8260B	J33914-4	21-Jun-06	15-Aug-06	MW10	9090	∩ o	1 ug/l	
Arsenic, Total	7440-38-2	SW846 6010B	J33914-5	21-Jun-06	15-Aug-06	OW4	9090	26.7	8 ug/l	
Ethylbenzene	100-41-4	SW846 8260B	J33914-5	21-Jun-06	15-Aug-06	OW4	9090	∩ o	1 ug/l	
Toluene	108-88-3	SW846 8260B	J33914-5	21-Jun-06	15-Aug-06	OW4	9090	0.0	1 ug/l	
Xylene (total)	1330-20-7	1330-20-7 SW846 8260B	J33914-5	21-Jun-06	15-Aug-06	OW4	9090	∩ 0	1 ug/l	:
Benzene	71-43-2	SW846 8260B	J33914-5	21-Jun-06	15-Aug-06	OW4	9090	∩ 0	1 ug/l	

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Analyte	Casmo	casho Method Labs	Labsampid	Date Sampled	Validation Date	Sample	Location R	ssuft Code	Rt. Units Valid Result Valid Code.
Azobenzene	103-33-3	SW846 8270C	J33914-6		15-Aug-06	EB2	9090	0.0	5 ug/l
Azoxybenzene	495-48-7	SW846 8270C	J33914-6		15-Aug-06	EB2	9090	∩ 0	5 ug/l
2-Aminophenol	9-55-56	SW846 8270C	J33914-6		15-Aug-06	EB2	9090	0.0	20 ug/l
Arsenic, Total	7440-38-2	SW846 6010B	J33914-6		15-Aug-06	EB2	9090	0 0	8 ug/l
Aniline	62-53-3	SW846 8270C	J33914-6		15-Aug-06	EB2	9090	0 0	2 ug/l
Nitrobenzene	98-95-3	SW846 8270C	J33914-6		15-Aug-06	EB2	9090	0.0	2 ug/l
Ethylbenzene	100-41-4	SW846 8260B	J33914-6	:	15-Aug-06	EB2	9090	0	1 ug/l
Toluene	108-88-3	SW846 8260B	J33914-6		15-Aug-06	EB2	9090	0.0	1 ug/l
Xylene (total)	1330-20-7	SW846 8260B	J33914-6		15-Aug-06	EB2	9090	n o	1 ug/l
cis-1,2-Dichloroethene	156-59-2	SW846 8260B	J33914-6	•	15-Aug-06	EB2	9090	n o	1 ug/l
Benzene	71-43-2	SW846 8260B	J33914-6		15-Aug-06	EB2	9090	n o	1 ug/l
Vinyl chloride	75-01-4	SW846 8260B	J33914-6		15-Aug-06	EB2	9090	n o	1 ug/l
Ethylbenzene 100-41-4 SW846 8260B J33914-7	100-41-4	SW846 8260B	J33914-7	:	15-Aug-06	CNK	TRIP BLANK	n o	1 ug/l
Toluene	108-88-3	SW846 8260B	J33914-7		15-Aug-06	SK	TRIP BLANK	n o	1 ug/l
Xylene (total)	1330-20-7	1330-20-7 SW846 8260B J339	J33914-7		15-Aug-06	SN N K	TRIP BLANK) 0	1 ug/l
Benzene	71-43-2	71-43-2 SW846 8260B J339	J33914-7	21-Jun-06	15-Aug-06	CNK	TRIP BLANK	0.0	1 ug/l

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DATA USABILITY SUMMARY REPORT FOR JULY 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on July 6, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on July 7, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 5.2°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J34993) was received by On-Site within 20 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, internal standard responses, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" – unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in

laboratory data resulting from data validation. Therefore, the nondetected dichlorodifluoromethane, vinyl chloride, and bromomethane results were considered estimated and qualified "UJ" in the "Valid Code" column for the sample TRIP BLANK as a result of data validation.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of continuing calibrations. It was noted that all continuing calibration compounds were compliant with relative response factors greater than 0.05 and percent differences (%Ds) within ±25% with the exception of dichlorodifluoromethane (-29.2%D), vinyl chloride (-27.4%D), and bromomethane (-28.9%D) in the continuing calibration associated with sample TRIP BLANK. Therefore, the nondetected results for these compounds for this sample were considered estimated and qualified "UJ".

Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision

- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

								State and the control of the control		
	:	EPA 150.1	J34993-1	90-JnC-90	28-Jul-06	SP114	90/0	6.72	ns	
Total	7429-90-5	EPA 200.7	J34993-1	90-Jn[-90	28-Jul-06	SP114	0706	0 0	100:ug/l	
Iron, Total	7439-89-6	EPA 200.7	J34993-1	90-Jul-90	28-Jul-06	SP114	9020	44900	100 ug/l	
Lead, Total	7439-92-1	EPA 200.7	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0 0	3.ug/l	
Nickel, Total	7440-02-0	EPA 200.7	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0.0	40 ug/l	
Arsenic, Total	7440-38-2	EPA 200.7	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	98.4	8. uq/l	
1 2	7440-47-3	EPA 200.7	J34993-1	06-Jul-06	28-Jul-06	SP114	0706	0.0	10 ug/l	
otal	7440-50-8	EPA 200.7	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0.0	25.ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J3 49 93-1	96-Jul-96	28-Jul-06	SP114	0706	0.0	20 ug/l	
Ethylbenzene	100-414	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	89	1 ua/l	
cis-1,3-Dichloropropene	.10061-01-5	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0:0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0 0	1 ug/l	
1,4-Dichlarobenzene	106-46-7	EPA 624	J3 49 93-1	90-Jul-90	28-Jul-06	SP114	0706	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0708	0 0	1.ug/l	
Toluene	108-88-3	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	7.6	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0.65.J	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J34993-1	90-Jn[-90	28-Jul-06	SP114	90/0	O 0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J34993-1	90-JnF-90	28-Jul-06	SP114	0706	10.7	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	90/0	34.9	1 ng/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0.72 J	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	90/0	0 0	1 ug/l	
Chloroform	67-66-3	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	90/0	0.0	1 ug/l	
Benzene	71-43-2	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	9020	9	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	90/0	7.4	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J34993-1	90-Jn[-90	28-Jul-06	SP114	90/0	O 0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	Π0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J34993-1	06-Jul-06	28-Jul-06	SP114	90/0	0.0	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	90/0	96.4	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J3 49 93-1	90-Jul-90	28-Jul-06	SP114	90/0	0.0	1 ug/l	:
Bromoform	75-25-2	EPA 624	J34993-1	96-Jul-96	28-Jul-06	SP114	0706	∩ 0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J34993-1	96-Jul-06	28-Jul-06	SP114	0706	0 O	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	90/0	17	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J34993-1	90-InC-90	28-Jul-06	SP114	0706	0.0	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	∩ 0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J34 9 93-1	90-Jul-90	28-Jul-06	SP114	0706	0.0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	90/0	0.0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	0706	0.0	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J34993-1	90-Inf-90	28-Jul-06	SP114	0706	∩ 0	1 ug/	
1,1,2,2-Tetrachioroethane 79-34-5	79-34-5	EPA 624	J34993-1	90-Jul-90	28-Jul-06	SP114	90/0	∩ o	1 ug/l	
1 2-Dichlorobenzene	95-50-1	EPA 624	.134993-1	06-101-06	28- hil-06	SP114	0706	=		

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Analyte casno Method	Sasiro Sasiro	Method	Labsampid	Date Sampled	Validation Date	Sample	Location	Result Code	RL Units Valid Result Va	did Code
Ethylbenzene	100-41-4	EPA 624	J34993-2	90-Jul-90	28~Jul-06	SP217	0706	Ωo	1 ug/l	F: 00000 00000 00000
cis-1,3-Dichloropropene	10061-01-5 EPA 624	5 EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	Π.0	1 ug/l	
trans-1,3-Dichloropropene: 10061-02-6 EPA 624	10061-02-6	3 EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	n o	Ngul	
1,4-Dichlorobenzene	106-46-7	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	n o	1 ug/l	:
1,2-Dichloroethane	107-06-2	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	٦o	1 ug/l	
Toluene	108-88-3	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	0.0	1 ug/	
Chlorobenzene	108-90-7	EPA 624	J34993-2	90-Jul-90	28~Jul-06	SP217	9020	0.0	1 ug/	
Dibromochloromethane	124-48-1	EPA 624	J34893-2	90-Jul-90	28~Jul-06	SP217	9020	0 0	/ant	
Tetrachloroethene	127-18-4	EPA 624	J34993-2	90-Jul-90	28~Jul-06	SP217	9020	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J34993-2	90-Jul-96	28~Jul-06	SP217	9020	0.0	1 ug/l	: : :
cis-1,2-Dichloroethene	156-59-2	EPA 624	J34993-2	90-Jul-90	28~Jul-06	SP217	0706	+	l'ag/	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J34993-2	90-Jul-90	28~Jul-06	SP217	90/0	0.0	logu L	
1,3-Dichlorobenzene	541-73-1	EPA 624	J34993-2	90-Jul-90	28~Jul-06	SP217	9020	0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J34993-2	06-Jul-06	28~Jul-06	SP217	0706	0.0	1 ug/l	:
Chlorofarm	67-66-3	EPA 624	J34993-2	90-Jul-90	28~Jul-06	SP217	9020	2.3	1 ug/l	:
Benzene	71-43-2	EPA 624	J34993-2	90-JnJ-90	28-Jul-06	SP217	9020	0.5.J	1 ug/l	
1,1,1~Trichloroethane	71-55-6	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	0.81 J	1'ug/l	:
Methyl bromide	74-83-9	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	0.0	1 ug/l	:
Chloromethane	74-87-3	EPA 624	J34993-2	90-Jul-96	28-Jul-06	SP217	0706	O 0	lug/l	
Chloroethane	75-00-3	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	90/0	0.0	l'ug/l	
Vinyl chloride	75-01-4	EPA 624	J34993-2	96-Jul-96	28-Jul-06	SP217	90/0	1.2 J	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J34993-2	90-Jul-90	28~Jul-06	SP217	90/0	∩ o	1 ug/l	 : : : : :
Bramoform	75-25-2	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	90/0	0.0	1 ug/l	:
Bromodichloromethane	75-27-4	EPA 624	J34993-2	90-JnF-90	28-Jul-06	SP217	90/0	0.4.0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	3.6	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	⊃ •	1 ug/l	·····
Trichlorofluoromethane	75-69-4	EPA 624	J34993-2	90-JnJ-90	28-Jul-06	SP217	9020	⊃ •	2 ug/l	:
Dichlorodifluoromethane	75-71-8	EPA 624	J34993-2	90-JnJ-90	28-Jul-06	SP217	9020	⊃ °	2: ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J34993-2	96-Jul-96	28-Jul-06	SP217	9020	<u>∩</u> .	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J34993-2	90-Jul-90	28-Jul-06	SP217	9020	⊃ °	1'ng/l	
Trichloroethene	79-01-6	EPA 624	J34993-2	90-JnJ-90	28-Jul-06	SP217	0706	⊃ ö	1/gn 1	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J34993-2	90-JnJ-90	28-Jul-06	SP217	9020	∩ °	1/gn:1	
1,2-Dichlorobenzene	95-50-1	EPA 624	J34993-2	90-JnJ-90	28-Jul-06	SP217	9020	⊃ •	1 ug/l	

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			つつかみまつつ	90-INC-90	28-Jul-06	SP219	9020	7.48	ns	
Aluminum, Total	7429-90-5	EPA 200.7	J34993-3	06-Jul-06	28-Jul-06	SP219	0706	0.0	100 ua/l	
Iron, Total	7439-89-6	EPA 200.7	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	186	100 ua/l	
Lead, Total	7439-92-1	EPA 200.7	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0 °	3:ua/l	
Nickel, Total	7440-02-0	EPA 200.7	J34993-3	96-Jul-96	28-Jul-06	SP219	0706	0 0	40 ug/l	
Arsenic, Total	7440-38-2	EPA 200 7	J34993-3	96-Jul-96	28-Jul-06	SP219	0706	O °	8. ug/l	
Chromium, Total	7440-47-3	·····	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.0	10 ug/l	
Copper, Total	7440-50-8	:	J34993-3	06-Jul-06	28-Jul-06	SP219	0706	0 0	25: uq/l	
Zinc, Total	7440-66-6		J34993-3	06-Jul-06	28-Jul-06	SP219	0706	Ω°	20 ug/l	
Oil And Grease		EPA 1664A	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0 0	5.1 mg/l	:
Ethylbenzene	100-41-4	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.0	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5 EPA 624	5 EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6 EPA 624	■ 10061-02-€	3 EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	O.O.	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J34993-3	96-Jul-96	28-Jul-06	SP219	0200	0.0	1 ug/l	
1,2-Dichloroethane	.107-06-2	EPA 624	J34993-3	90-JnJ-90	28-Jul-06	SP219	0200	0.0	1 ug/l	
Toluene	108-88-3	EPA 624	J34893-3	90-Jul-90	28-Jul-06	SP219	9020	0.0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	9020	0.0	1 ug/l	
Dibramochloromethane	124-48-1	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0200	∩ °	1.ug/l	
Tetrachloroethene	127-18-4	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	00	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.83	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J34993-3	06-Jul-06	28-Jul-06	SP219	90.20	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J34993-3	90-JnJ-90	28-Jul-06	SP219	9020	Ω 0	1/gn	
Chloroform	67-66-3	EPA 624	J34993-3	90-JnF-90	28-Jul-06	SP219	0706	1.8	1'gu	
Benzene	71-43-2	EPA 624	J34993-3	06-Jul-06	28-Jul-06	SP219	0206	0.29 J	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.57 J	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J34993-3	06-Jul-06	28-Jul-06	SP219	0706	0.0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J34993-3	06-Jul-06	28-Jul-06	SP219	9020	0.0	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J34 <u>9</u> 93-3	90-JnJ-90	28-Jul-06	SP219	0706	0.7 J	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J34993-3	06-Jul-06	28-Jul-06	SP219	9020	0.0	1 ug/l	
Bromoform	75-25-2	EPA 624	J34993-3	90-JnJ-90	28-Jul-06	SP219	0706	00	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J34993-3	90-Jn-90	28-Jul-06	SP219	020	0.0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J34993-3	90-JnF-90	28-Jul-06	SP219	9020	2.6	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J34893-3	90-JnF-90	28-Juj-06	SP219	0200	nο	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J34993-3	90-Jnf-90	28-Jul-06	SP219	9020	Πo	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	9020	0	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	00	1 ug/l	
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0.0	1 ug/l	¥
1,2-Dichlorobenzene	. 95-50-1	EPA 624	J34993-3	90-Jul-90	28-Jul-06	SP219	0706	0	1 ug/l	

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1004414 EPA 624 J349934 Obc-Jul-06 28-Jul-06 UNK TRIP	yte	casho	casho Method	Labsampid	Date Sampled	Validation Date	Sample	Location R	esult Code	RL Units Velis	Valid Result Valid Code
10061-01-5 EPA 624	:	4 14-001	EPA 624	J34993-4	06-Jul-06	28-JUI-05	ž	REANK	0	l/gu L	
1349934 06-Jul-06 28-Jul-06 UNK TRIP 1349934 06-Jul-06 <		10061-01-5	EPA 624	J34993-4	90-Jnf-90	28-Jul-06	ž	TRIP BLANK	⊃ 0	1/gn_1	
106-46-7 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 107-08-2 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 108-90-7 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 108-90-7 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 127-18-4 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 156-80-2 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 166-80-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 56-173-1 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 67-63-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 71-43-2 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 71-5-6 EPA 624 J349934 06-Jul-06 28-J	trans-1,3-Dichloropropene	10061-02-€	6 EPA 624	J34893-4	96-Jul-96	28-Jul-06	Š	TRIP BLANK	∩ •	1 ug/l	
107-06-2 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 108-89-3 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP TRIP TA-18-18-90-7 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP TS-18-4 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP TS-18-5 EPA 624 J349934 06-Jul-06 CR-10-06 CR-10-06 UNK TRIP TS-18-5 EPA 624 J349934 06-Jul-06 CR-10-06 UNK TRIP TS-18-5 EPA	1,4-Dichlorobenzene	106-46-7	EPA 624	J34893-4	90-Jul-90	28-Jul-06	Š	TRIP BLANK	0	1 ug/l	
108-88-3 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 108-90-7 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 124-48-1 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 127-18-4 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 1330-20-7 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 156-50-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 56-23-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 56-23-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 77-43-2 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 77-50-4 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 75-01-4 EPA 624 J349934 06-Jul-06 28-J	1,2-Dichloroethane	107-08-2	EPA 624	J34993-4	96-Jul-96	28-Jul-06	¥	TRIP BLANK	0	1 ug/l	
108-90-7 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 124-48-1 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 1330-20-7 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 156-50-5 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 156-50-5 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 156-50-5 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 156-50-3 EPA 624 J34993-4 06-Jul-06 C8-Jul-06 C8-Jul-06 UNK TRIP 156-50-3 EPA 624 J34993-4 06-Jul-06 C8-Jul-06 C8-Jul-06 UNK TRIP 156-50-3 EPA 624 J34993-4 06-Jul-06 C8-Jul-06	Toluene	108-88-3	EPA 624	J34993-4	90-Jul-90	28-Jul-06	¥	TRIP BLANK	0	1 ug/l	
127-18-4 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 156-59-2 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 156-60-5 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 156-60-5 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 156-60-5 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 171-73-2 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 171-743-2 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 171-75-0 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 175-07-1 EPA 624 J34993-4 06-Jui-06 28-Jui-06 UNK TRIP 175-07-07 EPA 624 J34993-4 06-Jui-06 CRIP 175-07-07 EPA 62	Chlorobenzene	108-90-7	EPA 624	J34993-4	90-Jul-90	28-Jul-06	Š	TRIP BLANK	0.0	1 ug/l	
127-184 EPA 624 J349934 06-Jui-06 28-Jui-06 UNK TRIP 136-20-7 EPA 624 J349934 06-Jui-06 28-Jui-06 UNK TRIP 156-60-5 EPA 624 J349934 06-Jui-06 28-Jui-06 UNK TRIP 176-62-3-5 EPA 624 J349934 06-Jui-06 28-Jui-06 UNK TRIP 176-63-3 EPA 624 J349934 06-Jui-06 28-Jui-06 UNK TRIP 176-64-4 BPA 624 J349934 06-Jui-06 28-Jui-06 UNK TRIP 176-64-64 BPA 624 J349934 06-Jui-06 S8-Jui-06 UNK TRIP 176-64-64 BPA 624 J349934 06-Jui-06 BPA 624	Dibromochloromethane	124-48-1	EPA 624	J34993-4	90-Jul-90	28-Jul-06	Š	TRIP BLANK	0.0	1 ug/l	
1330-20-7 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 156-80-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 156-80-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 156-82-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 176-8 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 176-8 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 176-9 EPA 624 J349934 06-Jul-06 28-Jul-06 SP-Jul-06 SP-Jul	Tetrachloroethene	127-18-4	EPA 624	J34993-4	06-Jul-06	28-Jul-06	Š	TRIP BLANK	0	1 ug/l	
156-59-2 EPA 624 J349834 06-Jul-06 28-Jul-06 UNK TRIP 16-60-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 541-73-1 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 56-23-5 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 71-43-2 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 75-00-3 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 75-27-4 EPA 624 J349934 06-Jul-06 28-Jul-06 UNK TRIP 75-27-4 EPA 624 J349934 06-Jul-06 28-Jul-06	Xylenes (total)	1330-20-7	EPA 624	J34993-4	90-Jul-90	28-Jul-06	ž	TRIP BLANK	∩ o	1 ug/l	
ene 156-60-5 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 541-73-1 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 56-23-5 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 71-43-2 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 71-55-6 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 71-55-6 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 74-83-9 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 75-01-4 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 75-02-2 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 75-03-4 EPA 624 J34993-4 O6-Jul-06 28-Jul-06 UNK TRIP 75-34-3 EPA 624 J34993-4 O6-J	cis-1,2-Dichloroethene	156-59-2	EPA 624	J34993-4	90-Jul-90	28-Jul-06	¥	TRIP BLANK	0.0	1 ug/l	
541-73-1 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 56-23-5 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 71-43-2 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 71-43-2 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 74-83-9 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 74-83-9 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-01-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-01-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-01-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-02-5 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-34-3 EPA 624 J34993-4 06-Jul-06 <td< td=""><td>trans-1,2-Dichloroethene</td><td>156-60-5</td><td>EPA 624</td><td>J34993-4</td><td>06-Jul-06</td><td>28-Jul-06</td><td>¥</td><td>TRIP BLANK</td><td>0</td><td>1 ug/</td><td>:</td></td<>	trans-1,2-Dichloroethene	156-60-5	EPA 624	J34993-4	06-Jul-06	28-Jul-06	¥	TRIP BLANK	0	1 ug/	:
56-23-5 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 67-66-3 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 71-43-2 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 74-83-9 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 74-83-9 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-01-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-01-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-01-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-25-2 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-34-3 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP 75-34-3 EPA 624 J34993-4 06-Jul-06	1,3-Dichlorobenzene	541-73-1	EPA 624	J34993-4	06-Jul-06	28-Jul-06	¥	TRIP BLANK	0	1 ug/	
oroethane 77-56-3 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP oroethane 71-43-2 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP nide 71-43-2 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP nide 74-83-9 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP ne 75-01-3 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP chomely and 75-01-3 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP chomely and 75-01-3 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP chomely and 75-27-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP comethane 75-37-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP comethane 75-71-8 EPA 624 <td>Carbon tetrachloride</td> <td>56-23-5</td> <td>EPA 624</td> <td>J34993-4</td> <td>06-Jul-06</td> <td>28-Jul-06</td> <td>Š</td> <td>TRIP BLANK</td> <td>٥٥</td> <td>1'ug/l</td> <td></td>	Carbon tetrachloride	56-23-5	EPA 624	J34993-4	06-Jul-06	28-Jul-06	Š	TRIP BLANK	٥٥	1'ug/l	
horoethane 77-43-2 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP omide 77-55-6 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP whane 74-83-9 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP whee 75-00-3 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP wide 75-01-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP m 75-25-2 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP m 75-27-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP hloroethane 75-34-3 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP nuochtane 75-34-4 EPA 624 J34993-4 06-Jul-06 28-Jul-06 UNK TRIP nuochtane 75-34-4 EPA 624 J34993	Chloroform	67-66-3	EPA 624	J34993-4	90-Jul-90	28-Jul-06	¥	TRIP BLANK	0.0	1 ug/l	· · · · ·
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J34993val.xls

DATA USABILITY SUMMARY REPORT FOR AUGUST 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on August 3, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on August 4, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 5.4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J37582) was received by On-Site within 21 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, internal standard responses, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" – unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in

laboratory data resulting from data validation. However, the laboratory data did not require qualification resulting from data validation for these samples. Therefore, there were no changes to the laboratory data presented in the attached table.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

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	100-41-4	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	6.2	1 ug/l
cis-1,3-Dichloropropene	10061-01-5 EPA 624	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	_ °	1 ug/l
trans-1,3-Dichloropropene 10061-02-6 EPA 624	10061-02-6	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	0806	∩ °	1 ug/l
1,4-Dichlorobenzene	106-46-7	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	00	1 ug/l
1,2-Dichloroethane	107-06-2	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0.0	1 ug/l
Toluene	108-88-3	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	4.8	1 ug/l
Chlorobenzene	108-90-7	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0.8.J	1 ug/l
Dibromochloromethane	124-48-1	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0.0	1 ug/l
Tetrachloroethene	127-18-4	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0	1 ua/l
Xylenes (total)	1330-20-7	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	13.5	1 ug/l
cis-1,2-Dichloroethene	156-59-2	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	39.2	1.ug/l
trans-1,2-Dichloroethene	156-60-5	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	1.4	1 ug/l
1,3-Dichlorobenzene	541-73-1	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0.0	1 ug/l
Carbon tetrachloride	56-23-5	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	0806	00	1 ug/l
Chloroform	67-66-3	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0 0	1 ug/l
Benzene	71-43-2	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	88.2	1 ug/l
1,1,1-Trichloroethane	71-55-6	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	7.7	1 ug/
Methyl bromide	74-83-9	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0	1.ug/l
Chloromethane	74-87-3	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0	1 ug/l
Chloroethane	75-00-3	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	⊃ •	1 ug/l
Vinyl chloride	75-01-4	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	95.8	2 ug/l
Methylene chloride	75-09-2	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	∩ o	1 ug/l
Bromoform	75-25-2	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	∩ 0	1 ug/l
Bromodichloromethane	75-27-4	EPA 624	. 137582-1	03-Aug-06	08-Sep-06	SP114	9080	∩ •	1 ug/l
1,1-Dichloroethane	75-34-3	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	18.5	1 ug/l
1,1-Dichloroethene	75-35-4	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0.0	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0.0	2 ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0	2:ug/l
1,2-Dichloropropane	78-87-5	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	∩ °	1 ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0 0	1 ug/l
Trichloroethene	79-01-6	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0	1 ug/l
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0 0	1 ug/l
1,2-Dichlorobenzene	95-50-1	EPA 624	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	∩ °	1 ug/l
Aluminum, Total	7429-90-5	EPA 200.7	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0.0	100 ug/l
Iron, Total	7439-89-6	EPA 200.7	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	44900	100 ug/l
Lead, Total	7439-92-1	EPA 200.7	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0.0	3 ug/l
Nickel, Total	7440-02-0	EPA 200.7	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	∩ o	40 ug/l
Arsenic, Total	7440-38-2	EPA 200.7	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	102	8 ug/!
Chromium, Total	7440-47-3	EPA 200.7	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0 0	10 ug/l
Copper, Total	7440-50-8	EPA 200.7	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	0 0	25 ug/l
Zinc Total	7440-66-6	EPA 200.7	J37582-1	03-Aug-06	08-Sep-06	SP114	9080	∩ •	20 ug/l

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Analyte	casno	Method	Labsampid	Date Sampled	Vatidation Date	Sample	Location	Result Code	RL Units Valid Result Valid Code	Valid Code
Ethylbenzene	100-41-4	EPA 624	J37582-2		08-Sep-06	SP117	9080	∩ o	1 ug/l	PC Problem and an area
cis-1,3-Dichloropropene	10061-01-6	5 EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0 0	1/gu/	
trans-1,3-Dichloropropene	10061-02-€	3 EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0.0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	0 0	1/gn	
1,2-Dichloroethane	107-06-2	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	n 0	1 ug/l	
Toluene	108-88-3	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0.0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	0 0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	6.4	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	0 0	1 ug/l	:::::::::::::::::::::::::::::::::::::::
cis-1,2-Dichloroethene	156-59-2	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	∩ 0	1 ug/l	:
trans-1,2-Dichloroethene	156-60-5	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0.0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0 0	1 ug/l	
Chloroform	67-66-3	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0.71 J	1 ug/l	
Benzene	71-43-2	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0.0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	O O	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	0.0	1 ug/l	
Chloromethane	74-87-3	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	n o	1 ug/l	
Chloroethane	75-00-3	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	no	1 ug/l	
Vinyl chloride	75-01-4	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	0.0	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	n o	1 ug/l	:
Bromoform	75-25-2	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	Ωo	1 ug/l	:
Bromodichloromethane 75-27-4 EPA 624	75-27-4	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	Ω0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	0.0	1'ng/l	
1,1-Dichloroethene	75-35-4	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	n o	1/6n L	
Trichlorofluoromethane	75-69-4	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	∩ o	2.ug/l	· · · · · · · · · · · · · · · · · · ·
Dichlorodifluoromethane	75-71-8	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	∩ o	2.ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	Λο	1 ug/l	:
1,1,2-Trichloroethane	79-00-5	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	∩ o	1 ug/l	
Trichloroethene	79-01-6	EPA 624		03-Aug-06	08-Sep-06	SP117	9080	1.5	1:ug/l	
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	∩ •	1 ug/l	:
1,2-Dichlorobenzene	95-50-1	EPA 624	J37582-2	03-Aug-06	08-Sep-06	SP117	9080	□	1 ug/l	
									The second secon	

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		*							Rebuil Code: W. Units Valid Kasult Valid Code	2000
H <u>a</u>			J37582-3	03-Aug-06	08-Sep-06	SP119	9080	7.57	ns	Europe de constituto de la constituto de
Oil And Grease		EPA 1664A	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	0	5.1 mg/l	
Ethylbenzene	100-41-4	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	00	1 ug/l	
cis-1,3-Dichloropropene 10061-01-5 EPA 624	10061-01-5	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	0	1 ug/l	
trans-1,3-Dichloropropene	10061-02-8	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ °	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ °	1 ug/l	
Toluene	108-88-3	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ •	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080) 0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ 0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	:EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ •	1ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J37582-3	03-A⊔g-06	08-Sep-06	SP119	9080	∩ o	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ o	1 ug/l	:
Carbon tetrachioride	56-23-5	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	0 0	1 ug/	
Chloroform	67-66-3	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	0 0	1 ug/	
Benzene	71-43-2	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	0 0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	O 0	1 ug/l	:
Methyl bromide	74-83-9	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ o	1 ug/l	
Chloromethane	74-87-3	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	⊃ •	1 ug/l	
Chloroethane	75-00-3	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ °	1 ug/l	:
Vinyl chloride	75-01-4	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩.o	2:ug/l	
Methylene chloride	75-09-2	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩.º	1 ug/l	
Вготобогт	75-25-2	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	<u>⊃</u>	1 ug/l	: "
Bromodichloromethane	75-27-4	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ •	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	0806	∩ o	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J37582-3	03-Aug-06	08-Sap-06	SP119	9080	∩ •	1 ug/l	:
Trichlorofluoromethane	75-69-4	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ •	2:ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ •	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ 0	1 ug/l	:
1,1,2-Trichloroethane	79-00-5	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ •	1 ug/l	:
Trichloroethene	79-01-6	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ o	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ °	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ •	1 ug/l	
Aluminum, Total	7429-90-5	EPA 200.7	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	ე •	100 ug/l	:
Iron, Total	7439-89-6	EPA 200.7	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ 0	100 ug/l	: '
Lead, Total	7439-92-1	EPA 200.7	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	O.o	3 ug/l	
Nickel, Total	7440-02-0	EPA 200.7	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩ •	40 ug/l	
Arsenic, Total	7440-38-2	EPA 200.7	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	∩.0	8 ug/l	
Chromium, Total	7440-47-3	EPA 200.7	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	⊃ 0	10 ug/l	:
Copper, Total	7440-50-8	EPA 200.7	J37582-3	03-Aug-06	08-Sap-06	SP119	9080	<u></u>	25 ug/l	
Zinc Total	7440-66-6	EPA 200.7	J37582-3	03-Aug-06	08-Sep-06	SP119	9080	⊃ •	20 ug/l	

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Analyte	Casand	Method		Date Sampled	Validation Date	Sample	Location R	Result Code	2	uts Valid Result Valid Code	/alid Code
Ethylbenzene 100-41-4 EPA 624	100-41-4	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	∩ •	u l	A	
cis-1,3-Dichloropropene	10061-01-5	EPA 624		03-Aug-06	08-Sep-06	ž	TRIP BLANK	∩ °	Jug.		
rans-1,3-Dichloropropene	10061-02-6	EPA 624	 .	03-Aug-06	08-Sep-06	ž	TRIP BLANK	O o	, 100		
I,4-Dichlorobenzene	108-46-7	EPA 624	J37582-4	03-Aug-06	08-Sep-06	¥	TRIP BLANK	0	1 ug/l		
1,2-Dichloroethane	107-06-2	EPA 624	·	03-Aug-06	08-Sep-06	Š	TRIP BLANK	00	L gu		
loluene	108-88-3	EPA 624		03-Aug-06	08-Sep-06	ž	TRIP BLANK	0	/gu L		
Chlorobenzene	108-90-7	EPA 624		03-Aug-06	08-Sep-06	Š	TRIP BLANK	0	. 5		
Dibromochloromethane	124-48-1	EPA 624	J37582-4	03-Aug-06	08-Sep-06	SK	TRIP BLANK	0	L g		
letrachloroethene	127-18-4	EPA 624	J37582-4	03-Aug-06	08-Sep-06	ž	TRIP BLANK	0	L gu		
Xylenes (total)	1330-20-7	EPA 624	J37582-4	03-Aug-06	08-Sep-06	SK	TRIP BLANK) 0	L gu		
cis-1,2-Dichloroethene	156-59-2	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	⊃	l'gu l		
trans-1,2-Dichloroethene	156-60-5	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	O o	L g		
1,3-Dichlorobenzene	541-73-1	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	00	- g		
Carbon tetrachloride	56-23-5	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	0	. L		:
Chloroform	67-66-3	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	0 0	L gu		
Велиене	71-43-2	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	∩ °	. 5		
1,1,1-Trichloroethane	71-55-6	EPA 624	J37582-4	03-Aug-06	08-Sep-05	Š	TRIP BLANK) O	. L		
Methyl bromide	74-83-9	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	0 0	_ 2		
Chloromethane	74-87-3	EPA 624	J37582-4	03-Aug-06	08-Sep-06	ž	TRIP BLANK	0	L g		
Chloroethane	75-00-3	EPA 624	J37582-4	03-Aug-06	08-Sep-06	ž	TRIP BLANK	0 0	L gu		
Vinyl chloride	75-01-4	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	∩	2 5		
Methylene chioride	75-09-2	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	∩ o			
Bromoform	75-25-2	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	•	۔ چ		
Bromodichloromethane	75-27-4	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	∩ °	ا ق	:	:
,1-Dichloroethane	75-34-3	EPA 624	J37582-4	03-Aug-06	08-Sep-06	Š	TRIP BLANK	⊃	. L		:
,1-Dichloroethene	75-35-4	EPA 624	J37582-4	03-Aug-06	08-Sep-06	X	TRIP BLANK	<u>⊃</u> °	. 2		:
richlorofluoromethane	75-69-4	EPA 624	J37582-4	03-Aug-06	08-Sep-06	ž	TRIP BLANK	⊃ °	2 ug/		
Dichlorodifluoromethane	75-71-8	EPA 624	J37582-4	03-Aug-06	08-Sep-06	ž	TRIP BLANK	∩ °	2 ug		
1,2-Dichloropropane	78-87-5	EPA 624	J37582-4	03-Aug-06	08-Sep-06	ž	TRIP BLANK	<u></u> 0	_ 2		:
l,1,2-Trichloroethane	79-00-5	EPA 624	J37582-4	03-Aug-06	08-Sep-06	X X	TRIP BLANK	∩ °	_ 2		
Trichloroethene	79-01-6	EPA 624	J37582-4	03-Aug-06	08-Sep-06	ž	TRIP BLANK) 0	Jug/		
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J37582-4	03-Aug-06	08-Sep-06	N X X	TRIP BLANK	∩ °	1 ug		
1,2-Dichlorobenzene		EPA 624	J37582-4	03-Aug-06	08-Sep-06	ž	TRIP BLANK) 0	_ 	: : : : :	
Aluminum, Dissolved		EPA 200.7	J37582-1F	03-Aug-06	08-Sep-06	SP114	9080	<u>٥</u>	100 ug/		:
Aluminum, Dissolved	7429-90-5	EPA 200.7	J37582-3F	03-Aug-06	08-Sep-06	SP119	9080	⊃ °	100 ng/		

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DATA USABILITY SUMMARY REPORT FOR SEPTEMBER 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on September 6, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on September 7, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 5.8°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J40276) was received by On-Site within 21 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, internal standard responses, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" – not detected at the value given,

"UJ" – estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in

laboratory data resulting from data validation. However, the laboratory data did not require qualification resulting from data validation for these samples. Therefore, there were no changes to the laboratory data presented in the attached table.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- · Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

Total	7430 00 6	FDA 200.7	140076	30 20 30	90 :- 14 00	,,,,,	0000	.00707	
101, 10th	0.50-05-0	EPA 200.7	7402/0-1	no-seb-no	20-VOV-02	3F114	9080	48400	100:ug/l
Lead, Total	7439-92-1	EPA 200.7	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	∩. 0	3 ug/l
Nickel, Total	7440-02-0	EPA 200.7	J40276-1	06-Sep-06	28-Nov-06	SP114	9060) 0	40 ug/l
Arsenic, Total	7440-38-2	EPA 200.7	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	117	/5n 8
	7440-50-8	EPA 200.7	J40276-1	90-deS-90	28-Nov-06	SP114	9060) 0	25 ug/l
Zinc, Total	7440-66-6	EPA 200.7	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0	20 ug/l
Aluminum, Total	7429-90-5	EPA 200.7	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0.0	100 ug/l
	7440-47-3	EPA 200.7	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	<u>∩</u> °	10 ug/l
Ŧ		EPA 150.1	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	6.7	DS.
Ethylbenzene	100-41-4	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	4.3	1 ug/l
cis-1,3-Dichloropropene	ne 10061-01-5		J40276-1	90-Sep-06	28-Nov-06	SP114	9060	Ωo	lug/l
trans-1,3-Dichloropropene: 10061-02-6	10061-02-6	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0	1:ug/l
1,4-Dichlorobenzene	106-46-7	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0.0	1'gul
1,2-Dichloroethane	107-06-2	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0.0	1'g/l
Toluene	108-88-3	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	5.8	1 ug/l
Chlorobenzene	108-90-7	EPA 624	J40276-1	08-Sep-06	28-Nov-06	SP114	9060	0.72 J	1 ug/l
Dibromochloromethane	124-48-1	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	00	1 ug/l
Tetrachloroethene	127-18-4	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	∩ °	1 ug/l
Xylenes (total)	1330-20-7	EPA 624	J40276-1	90-deS-90	28-Nov-06	SP114	9060	9.1	1 ug/l
cis-1,2-Dichloroethene	156-59-2	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	10.9	1 ug/l
trans-1,2-Dichloroethene	156-60-5	EPA 624	J40276-1	90-deS-90	28-Nov-06	SP114	9060	0.58 J	1 ug/l
I,3-Dichlorobenzene	541-73-1	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	00	1 ug/l
Carbon tetrachloride	56-23-5	EPA 624	J40276-1	90-deS-90	28-Nov-06	SP114	9060	Ω°	1 ug/l
Chloroform	67-66-3	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0 0	1 ug/l
Benzene	71-43-2	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	77	1 ug/l
1,1,1-Trichloroethane	71-55-6	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	8.	1 ug/l
Methyl bromide	74-83-9	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	O o	1 ng/l
Chloromethane	74-87-3	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	∩ o	1 ug/l
Chloroethane	75-00-3	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060) 0	1 ug/l
Vinyl chloride	75-01-4	EPA 624	J40276-1	08-Sep-06	28-Nov-06	SP114	9060	55.3	2 ug/l
Methylene chloride	75-09-2	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	2.7	1 ug/l
Bromoform	75-25-2	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0.0	1:ug/l
Bromodichloromethane	75-27-4	EPA 624	J40276-1	90-deS-90	28-Nov-06	SP114	9060	O o	1 ug/l
1,1-Dichloroethane	75-34-3	EPA 624	J40276-1	90-deS-90	28-Nov-06	SP114	9060	14.5	1'gu'l
1,1-Dichloroethene	75-35-4	EPA 624	J40276-1	90-deS-90	28-Nov-06	SP114	9060	n o	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0.0	2:ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	Ω°	2.ug/l
1,2-Dichloropropane	78-87-5	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0.0	1 ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	nο	1 ug/l
Trichloroethene	79-01-6	EPA 624	J4027B-1	06-Sep-06	28-Nov-06	SP114	9060	Ω°	1 ug/l
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J40276-1	06-Sep-06	28-Nov-06	SP114	9060	0.0	1 ug/l
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Iron, Total	7439-89-6	EPA 200.7	J40276-3	06-Sap-06	28-Nov-06	SP219	9060	143		Angle of the recognition of
Lead, Total	7439-92-1	EPA 200.7	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ o	3 ug/l	
Nickel, Total	7440-02-0	EPA 200.7	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	O 0	40 ug/l	
Arsenic, Total	7440-38-2	EPA 200.7	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0 0	8 ug/l	
Chromium, Total	7440-47-3	EPA 200.7	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	10 ng/l	
Copper, Total	7440-50-8	EPA 200.7	J40276-3	06-Sap-06	28-Nov-06	SP219	9060	∩ o	25.ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	O 0	20 ug/l	:
Aluminum, Total	7429-90-5	EPA 200.7	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ 0	100 ug/l	
玉		EPA 150.1	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	7.47	ns	
Oil And Grease		EPA 1664A	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ o	5 mg/l	
Ethylbenzene	100-41-4	EPA 624	J40276-3	06-Sap-06	28-Nov-06	SP219	9060	0.0	1 ng/l	
cis-1,3-Dichloropropene	10061-01-5	5 EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0 0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	10061-02-6	3 EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	1 ug/l	:
1,4-Dichlorobenzene	106-46-7	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	1 ug/l	
Toluene	108-88-3	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	1 ug/l	:
Chlorobenzene	108-90-7	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0 0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0 0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	1 ug/l	:
cis-1,2-Dichloroethene	156-59-2	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	1 ug/l	
trans-1,2-Dichloroethene	158-60-5	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ o	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ o	1 ug/l	:
Chloroform	67-66-3	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ °	1 ug/l	
Benzene	71-43-2	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ o	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩.0	1 ug/l	:
Methyl bromide	74-83-9	EPA 624	J40276-3	08-Sep-06	28-Nov-06	SP219	9060	∩ o	1 ug/l	
Chloromethane	74-87-3	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ °	1 ug/l	:
Chloroethane	75-00-3	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ •	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ o	2 ug/l	: -
Methylene chloride	75-09-2	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	<u></u> 0	1 ug/l	
Bromoform	75-25-2	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ •	1 ug/l	· · · · · · · · · · · · · · · · · · ·
1,1-Dichloroethane	75-34-3	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ °	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ •	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	⊃ °	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ o	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ o	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩ 0	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	∩°	1 ug/l	
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	_ •	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J40276-3	06-Sep-06	28-Nov-06	SP219	9060	⊃	1 ug/l	

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Ethylbenzene										
	100-41-4	EPA 624	J40276-4	06-Sep-06	28-Nov-06	¥	TRIP BLANK	∩ 0	1 ug/l	000000000000000000000000000000000000000
cis-1,3-Dichloropropene 10061-01-5 EPA 62	10061-01-5	EPA 624	J40276-4	90-Sep-06	28-Nov-06	Š	TRIP BLANK	O 0	1 ug/l	
trans-1,3-Dichloropropen	e 10061-02-6	EPA 624	J40276-4	06-Sep-06	28-Nov-06	ž	TRIP BLANK	O 0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	0 0	1 ng/l	
1,2-Dichloroethane	107-06-2	EPA 624	J40276-4	06-Sep-06	28-Nov-06	ž	TRIP BLANK	o °	1 ug/l	
Toluene	108-88-3	EPA 624	J40276-4	90-deS-90	28-Nov-06	Š	TRIP BLANK) 0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J40276-4	06-Sep-06	28-Nov-06	¥	TRIP BLANK	<u>٥</u>	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	0.0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J40276-4	06-Sep-06	28-Nov-06	¥	TRIP BLANK	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J40276-4	90-Sep-06	28-Nov-06	Š	TRIP BLANK	∩ °	1/gn L	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J40276-4	06-Sep-06	28-Nov-06	ž	TRIP BLANK	∩ o	1 ug/l	
trans-1,2-Dichloroethene		EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	n	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J40276-4	06-Sep-06	28-Nov-06	ž	TRIP BLANK	∩ °	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J40276-4	90-Sep-06	28-Nov-06	ž	TRIP BLANK	O 0	1/gn L	
Chloroform	67-66-3	EPA 624	J40276-4	06-Sep-06	28-Nov-06	ž	TRIP BLANK	o °	1 ug/l	
Benzene	71-43-2	EPA 624	J40276-4	90-Sep-06	28-Nov-06	ž	TRIP BLANK	O 0	1 ug/l	-
1,1,1-Trichloroethane	71-55-6	EPA 624	J40276-4	06-Sep-06	28-Nov-06	ž	TRIP BLANK	o 0	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	0.0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J40276-4	90-deS-90	28-Nov-06	Š	TRIP BLANK) 0	1 ug/l	:
Chloroethane	75-00-3	EPA 624	J40276-4	06-Sep-06	28-Nov-06	¥	TRIP BLANK	∩ °	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J40276-4	90-deS-90	28-Nov-06	Š	TRIP BLANK	n o	2 ug/l	:
Methylene chloride	75-09-2	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	⊃ °	1 ug/l	
Вготобогт	75-25-2	EPA 624	J40276-4	90-deS-90	28-Nov-06	N X	TRIP BLANK	∩°	1 ug/l	:
Bromodichloromethane	75-27-4	EPA 624	J40276-4	90-Sep-06	28-Nov-06	N X	TRIP BLANK	∩ °	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	⊃ °	1 ug/l	:
1,1-Dichloroethene	75-35-4	EPA 624	J40276-4	06-Sep-06	28-Nov-06	X S	TRIP BLANK	∩ °	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	_ _ 0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J40276-4	06-Sep-06	28-Nov-06	¥	TRIP BLANK	n o	2 ug/l	:
1,2-Dichloropropane	78-87-5	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	n o	1 ug/l	:
1,1,2-Trichloroethane	79-00-5	EPA 624	J40276-4	06-Sep-06	28-Nov-06	ž	TRIP BLANK	∩ °	1'gu	
Trichloroethene	79-01-6	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	n o	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	s 79-34-5	EPA 624	J40276-4	06-Sep-06	28-Nov-06	¥	TRIP BLANK	∩ °	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J40276-4	06-Sep-06	28-Nov-06	Š	TRIP BLANK	_ 0	1 ug/l	
Aluminum, Dissolved	7429-90-5	EPA 200.7	J40276-1F	06-Sep-06	28-Nov-06	SP114	9060	O 0	100 ug/l	
Aluminum, Dissolved	7429-90-5	EPA 200.7	J40276-3F	06-Sep-06	28-Nov-06	SP219	9060	<u></u>	100 ug/l	

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DATA USABILITY SUMMARY REPORT FOR OCTOBER 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on October 5, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on October 6, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J43078) was received by On-Site within 27 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, internal standard responses, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" – not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in

laboratory data resulting from data validation. However, the laboratory data did not require qualification resulting from data validation for these samples. Therefore, there were no changes to the laboratory data presented in the attached table.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

		ALCON ACT	0 0000	00.00						
O DIG GERSE		EFA 1004A	J43U/8-3	03-0ct-02	S9-Nov-06	SP219	1006	0	5.1 mg/l	
Ethylbenzene	100-41-4		J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5		J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0	1 00/	· · · · · · · · · · · · · · · · · · ·
trans-1,3-Dichloropropene 10061-02-6	3 10061-02-6	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	c	1.00/	:
1,4-Dichlorobenzene	106-46-7	į	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1.00/l	
1,2-Dichloroethane	107-06-2	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	ПО	1.00/	
Toluene	108-88-3	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ua/l	
Chlorobenzene	108-90-7	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ug/l	:
Dibromochloromethane	124-48-1	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	٥٥	1 ug/l	
	1330-20-7	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	Ω°	1 ug/l	
	156-59-2	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0 0	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ua/	
Carbon tetrachloride	56-23-5	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ug/	
Chloroform	67-66-3	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.67 J	1 ua/l	1
Benzene	71-43-2	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ug/	:
Methyl bromide	74-83-9	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0	/on_t	
Chloromethane	74-87-3	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0	1 ng/l	
Chloroethane	75-00-3	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0	1 ug/	
Vinyl chloride	75-01-4	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	2.ug/l	
Methylene chloride	75-09-2	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0	1 ug/l	
Bromoform	75-25-2	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	1.3	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0 0	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	00	2.ug/l	·· ·
Dichlorodifluoromethane	75-71-8	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	00	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	1 _e J/	
1,1,2-Trichloroethane	79-00-5	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	∩ o	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	Ω 0	1 ug/l	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	∩ o	1 ug/l	:
1,2-Dichlorobenzene	95-50-1	EPA 624	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	∩ °	1 ug/l	
Aluminum, Total	7429-90-5	EPA 200.7	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	200 ug/l	
Iron, Total	7439-89-6	EPA 200.7	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	100 ug/l	
Lead, Total	7439-92-1	EPA 200.7	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0 0	3 ug/l	:
Nickel, Total	7440-02-0	EPA 200.7	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	O.	40 ug/l	· · · · · · · · · · · · · · · · · · ·
Arsenic, Total	7440-38-2	EPA 200.7	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0	8 ug/l	
Chromium, Total	7440-47-3	EPA 200.7	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	00	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	∩•	25 ug/l	
Zinc, Total	7440-66-6	EPA 200.7	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	∩ o	20 ug/l	
Cvanide	57-12-5	335.3/LACH	J43078-3	05-Oct-06	29-Nov-06	SP219	1006	0.0	: 0.01:ma/l	

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Ethylbenzene 100-41-4 EPA 624 cls-1,3-Dichloropropene 10061-02-6 EPA 624 cls-1,3-Dichloropropene 10061-02-6 EPA 624 1,4-Dichloropenzene 107-06-2 EPA 624 1,2-Dichloroethane 108-88-3 EPA 624 Chlorobenzene 108-80-7 EPA 624 Chlorobenzene 108-90-7 EPA 624 Chlorobenzene 124-48-1 EPA 624 Dibromochloroethane 124-48-1 EPA 624 cis-1,2-Dichloroethane 127-18-4 EPA 624 cis-1,2-Dichloroethane 156-59-2 EPA 624 cis-1,2-Dichloroethane 17-65-3 EPA 624 carbon tetrachloroethane 17-43-2 EPA 624 Chloroform 17-43-2 EPA 624 Metryl bromide 17-55-8 EPA 624 Ninyl chloride 17-83-9 EPA 624 Ninyl chloroethane 17-50-3 EPA 624 Bromodichloroethane 17-3-1 EPA 624 Bromodichloroethane 17-3-2 EPA 624 1,1-Dichloroethane </th <th>J43078-4 J43078-4 J43078-4 J43078-4</th> <th>05-Oct-06</th> <th>29-Nov-06 29-Nov-06</th> <th>X S</th> <th>TRIP BLANK</th> <th>∩ ∩ 0 0</th> <th>.</th> <th></th>	J43078-4 J43078-4 J43078-4 J43078-4	05-Oct-06	29-Nov-06 29-Nov-06	X S	TRIP BLANK	∩ ∩ 0 0	.	
		05.004.08	29-Nov-06	XX	TOID RI ANK	0 0		
		2		5			/bn:L	
106-46-7 107-06-2 108-88-3 108-90-7 124-48-1 127-18-4 1330-20-7 156-59-2 127-18-4 1330-20-7 156-59-2 541-73-1 56-23-5 67-66-3 71-48-3 71-48-3 71-48-3 71-48-3 71-48-3 75-28-2 75-28-4 75-38-4		05-Oct-06	29-Nov-06	Š	TRIP BLANK	∩ •	1 ug/l	
107-06-2 108-88-3 108-90-7 124-48-1 127-18-4 1330-20-7 156-59-2 156-60-5 541-73-1 56-23-5 67-66-3 71-4-87-3 71-68-3 71-87-3 71-87-3 75-28-2 75-28-2 75-28-2 75-34-3 75-3 75-3 75-3 75-3 75-3 75-3 75-3 75	:	05-Oct-06	29-Nov-06	Š	TRIP BLANK	0.0	1 ug/l	
108-88-3 108-90-7 127-18-4 127-18-4 1330-20-7 156-59-2 156-59-2 171-43-2 71-43-9 74-87-3 75-00-3 75-27-4 75-27-4 75-35-4 75-34-3 75-3 75-3 75-3 75-3 75-3 75-3 75-3 75		05-Oct-06	29-Nov-06	Š	TRIP BLANK	0.0	1 ug/l	
108-90-7 127-18-4 127-18-4 1330-20-7 156-59-2 156-53-5 67-66-3 71-43-2 71-43-9 74-87-3 75-00-3 75-00-2 75-27-4 75-34-3 75-3 75-3 75-3 75-3 75-3 75-3 75-3 75	.	05-Oct-06	29-Nov-06	Š	TRIP BLANK	0.0	1 ug/l	
124-48-1 127-18-4 1330-20-7 156-59-2 156-59-5 67-66-3 71-43-2 71-43-9 74-83-9 74-83-9 74-83-9 75-00-3 75-00-3 75-28-2 75-28-2 75-38-4 8 75-69-4 8 75-69-4		05-Oct-06	29-Nov-06	Š	TRIP BLANK	0 0	1 ug/l	
127-18-4 1330-20-7 136-50-5 156-59-2 67-66-3 71-43-2 71-43-2 71-43-9 74-83-9 75-01-4 75-09-2 75-09-2 75-28-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 8 75-69-4 8 75-69	524 J43078-4	05-Oct-06	29-Nov-06	X S	TRIP BLANK	0.0	1 ug/l	
1330-20-7 1330-20-7 156-59-2 156-59-5 67-66-3 71-43-2 71-43-9 74-83-9 74-83-9 75-00-3 75-00-3 75-25-2 75-27-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 8 75-71-8 75-35-4 8 75-71-8 8 75-7	324 J43078-4	05-Oct-06	29-Nov-06	SN CN K	TRIP BLANK	0	1 ug/l	
156-59-2 156-60-5 541-73-1 56-23-5 67-66-3 71-43-2 71-43-2 71-55-8 74-83-9 75-09-2 75-09-2 75-35-4 75-35-4 75-36-4 16 75-71-8 75-36-4 17-36-8 17-36-8 17-36-9 18-37-18 18-37-1	324 J43078-4	05-Oct-06	29-Nov-06	ON Y	TRIP BLANK	0.0	1 ug/l	
6 156-60-5 541-73-1 56-23-5 67-66-3 71-43-2 71-43-9 74-83-9 74-83-9 75-00-3 75-01-4 75-25-2 75-25-2 75-26-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 8 75-71-8 8 75-71-8 9 75-71-8 9 75-35-4 9 75-31-5 9 75-3	524 343078-4	05-Oct-06	29-Nov-06	Š	TRIP BLANK	0 0	1 ug/l	
541-73-1 56-23-5 67-66-3 71-43-2 71-43-9 74-83-9 75-00-3 75-00-3 75-00-2 75-25-2 75-25-2 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 8 75-71-8 8 75-71-8 9 75-71-8	524 J43078-4	05-Oct-06	29-Nov-06	Š	TRIP BLANK	00	1 ug/l	
56-23-5 67-66-3 71-43-2 71-55-8 74-83-9 75-01-4 75-09-2 75-25-2 75-25-2 75-25-2 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 8 75-71-8 9 75-71-8 9 75-71-8 9 75-71-8		05-Oct-06	29-Nov-06	¥	TRIP BLANK	0	1 ug/l	
67-66-3 71-43-2 71-55-8 74-83-9 74-83-9 75-01-4 75-09-2 75-25-2 75-27-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 8 75-71-8 9 75-71-8	524 J43078-4	05-Oct-06	29-Nov-06	S Y Y	TRIP BLANK	0 0	1 ug/l	
71-43-2 71-55-8 74-83-9 74-87-3 75-00-3 75-00-3 75-25-2 75-27-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-69-4 8 75-71-8 76-00-5 79-00-5 79-01-6 79-34-5		05-Oct-06	29-Nov-06	X S	TRIP BLANK	0 0	1 ug/l	
71-55-6 74-83-9 74-83-9 75-01-4 75-09-2 75-25-2 75-27-4 75-34-3 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 75-35-4 8 75-71-8 9 75-71-8 9 75-71-8	524 J43078-4	05-Oct-06	29-Nov-06	Š	TRIP BLANK	00	1 ug/l	
74-83-9 74-87-3 75-00-3 75-01-4 75-09-2 75-27-4 75-34-3 75-35-4 75-35-4 8 75-71-8 9 75-71-8 76-80-5 79-00-5 79-00-5 79-00-5 79-01-6		05-Oct-06	29-Nov-06	Š	TRIP BLANK	<u></u>	1 ug/l	3
74-87-3 75-00-3 75-01-4 75-09-2 75-25-2 75-27-4 75-35-4 75-35-4 75-35-4 75-69-4 9 75-71-8 76-60-5 79-00-5 79-00-5 79-01-6		05-Oct-06	29-Nov-06	Š	TRIP BLANK	<u>∩</u>	1 ug/l	
75-00-3 75-01-4 75-09-2 75-25-2 75-34-3 75-35-4 75-36-4 8 75-71-8 76-00-5 79-00-5 79-00-5 99-50-1	324 J43078-4	05-Oct-08	29-Nov-06	Š	TRIP BLANK	0.0	1 ug/l	
75-01-4 75-09-2 75-25-2 75-27-4 75-34-3 75-69-4 8 75-71-8 78-87-5 79-00-5 79-01-6 ne 79-34-5 95-50-1		05-Oct-06	29-Nov-06	X S	TRIP BLANK	<u></u>	1 ug/l	
75-09-2 75-25-2 75-27-4 75-34-3 75-35-4 75-69-4 8 75-71-8 78-87-5 79-00-5 79-01-6 79-01-6 99-50-1		05-Oct-06	29-Nov-06	X S	TRIP BLANK	<u></u>	2 ug/l	
75-25-2 75-27-4 75-34-3 75-35-4 75-69-4 9 75-71-8 78-87-5 79-00-5 79-01-6 79-01-6 95-50-1		05-Oct-06	29-Nov-06	Š	TRIP BLANK	<u></u>	1 ug/l	
75-27-4 75-34-3 75-34-3 75-69-4 75-69-4 75-71-8 79-00-5 79-01-6 79-01-6 95-50-1		05-Oct-06	29-Nov-06	X N	TRIP BLANK	<u> </u>	1 ug/l	:
75-34-3 75-35-4 75-69-4 75-71-8 78-87-5 79-00-5 79-01-6 6 79-34-5 95-50-1		05-Oct-06	29-Nov-06	¥	TRIP BLANK	∩ 0	1 ug/l	
75.35.4 75.69.4 75.71.8 78.00.5 79.01.6 79.34.5 95.50.1	-,	05-Oct-06	29-Nov-06	¥	TRIP BLANK	<u>∩</u>	1 ug/l	
75-69-4 75-71-8 78-87-5 79-00-5 79-01-6 6 79-34-5 95-50-1		05-Oct-06	29-Nov-06	¥	TRIP BLANK	<u></u>	1 ug/l	
75-71-8 78-87-5 79-00-5 79-01-6 8 79-34-5 95-50-1		05-Oct-06	29-Nov-06	Š	TRIP BLANK	<u></u>	2 ug/l	
78-87-5 79-00-5 79-01-6 hane 79-34-5 95-50-1		05-Oct-06	29-Nov-06	Š	TRIP BLANK	<u></u>	2 ug/l	
79-00-5 79-01-6 hane 79-34-5 95-50-1	324 J43078-4	05-Oct-06	29-Nov-06	Š	TRIP BLANK	0	1 ug/l	
79-01-6 hane 79-34-5 95-50-1		05-Oct-06	29-Nov-06	X N	TRIP BLANK) 0	1 ug/l	:
hane 79-34-5 95-50-1		05-Oct-06	29-Nov-06	Š	TRIP BLANK) 0	1 ug/l	:
95-50-1		05-Oct-06	29-Nov-06	¥	TRIP BLANK	O o	1 ug/l	
		05-Oct-06	29-Nov-06	¥ 5	TRIP BLANK	<u></u>	1 ug/l	
	00.7 J43078-1F	05-Oct-06	29-Nov-06	SP114	1006	<u>0</u>	200 ug/l	
Aluminum, Dissolved 7429-90-5 EPA 200.7	00.7 J43078-3F	05-Oct-06	29-Nov-06	SP219	1006) 0	200 ug/l	

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Ethylbenzene	100414	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	4.5		
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	∩ °	1 ug/l	
trans-1,3-Dichloropropene: 10061-02-6	10061-02-6	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	∩ 0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	00	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	<u>∩</u>	1 ug/l	
Toluene	108-88-3	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	8.	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0.68 J	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0.0	1,0g/l	
Tetrachloroethene	127-18-4	EPA 624	J43078-1	05-Oct-08	29-Nov-06	SP114	1006	0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	9.6	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	29	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	1.1	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0.0	1 ug/l	
Chloroform	67-66-3	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0	1 ug/l	
Вепzепе	71-43-2	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	93.3	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J43078-1	05-Oct-08	29-Nov-06	SP114	1006	7.3	1 vg/l	
Methyl bromide	74-83-9	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	Ω o	1/gn_1	
Chloromethane	74-87-3	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	∩ o	1 ug/l	
Chloroethane	75-00-3	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0.94	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	93.2	2:ug/l	
Methylene chloride	75-09-2	EPA 624	J43078-1	05-Oct-08	29-Nov-06	SP114	1006	U.O	1.gu/	
Bromoform	75-25-2	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	n o	1 ug/	
Bromodichloromethane	75-27-4		J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0.0	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	20.6	1.ug/	
1,1-Dichloroethene	75-35-4	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0.0	1,gn/1	
Trichlorofluoromethane	75-69-4	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	<u>0</u>	2.ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	O.0	2:ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	n o	1,gn/1	
1,1,2-Trichloroethane	.79-00-5	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	o O	1/gu/	
Trichloroethene	79-01-6	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	n.º	1/gn 1	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	∩ °	1'gu/	
1,2-Dichlorobenzene	95-50-1	EPA 624	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	∩ °	1 ug/l	
Aluminum, Total	7429-90-5	EPA 200.7	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	∩ 0	200 ug/l	
Iron, Total	7439-89-6	EPA 200.7	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	46000	100 ug/l	
Lead, Total	7439-92-1	EPA 200.7	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	9,0	3 ng/l	
Nickel, Total	7440-02-0	EPA 200.7	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	n o	40 ug/l	
Arsenic, Total	7440-38-2	EPA 200.7	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	124	8. ug/l	:
.Chromium, Total	7440-47-3	EPA 200.7	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	0.0	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	∩ o	25 ug/l	
Zine Total	7440-66-6	EPA 200.7	J43078-1	05-Oct-06	29-Nov-06	SP114	1006	_ 0	20 ug/l	

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Euryspenzene	100 4 4	EPA 624	J43078-2		29-Nov-06	SP217	1006	∩0	1.cg/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	Λ0	1 ug/l	
trans-1,3-Dichloropropene 10061-02-6	9 10061-02-6		J43078-2	05-Oct-08	29-Nov-06	SP217	1006	0.0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	l _{ug} u!	
1,2-Dichloroethane	107-06-2	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	1 ug/l	
Toluene	108-88-3	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	1/gn L	
Chlorobenzene	108-90-7	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	∩ 0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	 	1, gn 1	
Xylenes (total)	1330-20-7	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	∩ •	1/6n_1	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	1.8	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0 0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	O 0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0 0	1/gn L	:
Chloroform	67-66-3	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	1.5	1/gn L	
Benzene	71-43-2	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	1/gn t	
1,1,1-Trichloroethane	71-55-6	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.64 J	1,0g/l	
Methyl bromide	74-83-9	EPA 624 J4	J43078-2	05-Oct-08	29-Nov-06	SP217	1006	Π 0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	∩ 0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	1'gn	
Vinyl chloride	75-01-4	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	1.3.J	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	n o	1 ₀ 0/1	:
Bromoform	75-25-2	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	n o	1 ug/l	:
Bromodichloromethane	75-27-4	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.49.J	1,00,1	
1,1-Dichloroethane	75-34-3	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	ю. 80.	1 ug/1	
1,1-Dichloroethene	75-35-4	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	∩ °	1 ug/l	
Trichlorofluoromethane	.75-69-4	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	⊃ °	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	2 ug/l	:
1,2-Dichloropropane	78-87-5	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0	1'gu 1	
1,1,2,2-Tetrachloroethane 79-34-5	79-34-5	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J43078-2	05-Oct-06	29-Nov-06	SP217	1006	0.0	1 ug/l	

J43078val.xls

DATA USABILITY SUMMARY REPORT FOR NOVEMBER 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on November 1, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on November 2, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 3.2°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J45287) was received by On-Site within 23 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, internal standard responses, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" – estimated and not detected at the value given,

"J" - estimated at the value given, and

"R" – unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in

laboratory data resulting from data validation. However, the laboratory data did not require qualification resulting from data validation for these samples. Therefore, there were no changes to the laboratory data presented in the attached table.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the inorganic data and the oil and grease data presented by Accutest were 100% complete with all data considered usable and valid.

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Ethylbenzene	100-41-4	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	3.1	1,ng/1
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.0	1:ua/l
trans-1,3-Dichloropropene	10061-02-6	EPA 624	J45287-1	01-Nov-08	30-Nov-06	SP114	1106	∩ 0	1 ug/l
1,4-Dichlorobenzene	106-46-7	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.0	1 ug/l
1,2-Dichloroethane	107-06-2	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0	1 ug/l
Toluene	108-88-3	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	4.5	1 ug/l
	108-90-7	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0	1 ug/l
Dibromochloromethane	124-48-1	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0 0	1 ug/l
Tetrachloroethene	127-18-4	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.0	1 ug/l
	1330-20-7	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	5.8	1 ug/l
	156-59-2	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	4.5	/on
trans-1,2-Dichloroethene	156-60-5	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1108	0.61.J	1 ug/l
1,3-Dichlorobenzene	541-73-1	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0	1 ug/l
Carbon tetrachloride	56-23-5	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.0	1ug/l
Chloroform	67-66-3	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0	1 ug/l
Benzene	71-43-2	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	76.2	1 ug/l
1,1,1-Trichloroethane	71-55-6	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	2.9	1 ug/l
Methyl bromide	74-83-9	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0	1 ug/l
Chloromethane	74-87-3	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1108	0	l'ant
Chloroethane	75-00-3	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.55 J	1.ug/l
Vinyl chloride	75-01-4	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	33.5	2 ug/l
Methylene chloride	75-09-2	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.0	1 ug/l
Bromoform	75-25-2	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	 O	1 ug/l
Bromodichloromethane	75-27-4	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0	1 ug/l
1,1-Dichloroethane	75-34-3	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	19.1	1 ug/l
1,1-Dichloroethene	75-35-4	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106) 0	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	<u>∩</u> °	2 ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.0	2 ug/l
1,2-Dichloropropane	78-87-5	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.0	1 ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	<u>⊃</u>	1 ug/l
Trichloroethene	79-01-6	EPA 624	J45287-1	01-Nov-08	30-Nov-06	SP114	1106	0.0	1 ug/l
hane	79-34-5	EPA 624	J45287-1	01-Nov-06	30-Nov-08	SP114	1106	0	1 ug/l
1,2-Dichlorobenzene	95-50-1	EPA 624	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	∩ °	1 ug/l
Lead, Total	7439-92-1	EPA 200.7	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0	3 ug/l
Aluminum, Total	7429-90-5	EPA 200.7	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	<u></u> 0	100 ug/l
Iron, Total	7439-89-6	EPA 200.7	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	48400	100 ug/l
Nickel, Total	7440-02-0	EPA 200.7	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	∩.0	40:ug/l
Arsenic, Total	7440-38-2	EPA 200.7	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	119	8: ug/l
Chromium, Total	7440-47-3	EPA 200.7	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0	10 ug/l
Copper, Total	7440-50-8	EPA 200.7	J45287-1	01-Nov-06	30-Nov-06	SP114	1106) 0	25 ug/l
Zinc Total	7440-66-6	EPA 200.7	J45287-1	01-Nov-06	30-Nov-06	SP114	1106	0.0	20 ug/l

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Ethylbenzene	100-41-4	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	○	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
trans-1,3-Dichloropropene	10061-02-6	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0 0	1 ug/l	
Toluene	108-88-3	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
etrachloroethene	127-18-4	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	1.2	1 ug/l	
Irans-1,2-Dichloroethene	156-60-5	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
,3-Dichlorobenzene	541-73-1	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106) 0	1 ug/l	
Chloroform	67-66-3	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	3.9	1 ug/l	
Benzene	71-43-2	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
,1,1-Trichloroethane	71-55-6	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.27 J	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0 0	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
Bromoform	75-25-2	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.93 J	1 ug/l	
,1-Dichloroethane	75-34-3	EPA 624	J45287-2	01-Nov-08	30-Nov-06	SP217	1106	2.5	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1.ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	<u></u> 0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J45287-2	01-Nov-08	30-Nov-06	SP217	1106	0.0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
,1,2-Trichloroethane	79-00-5	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	n o	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J45287-2	01-Nov-08	30-Nov-06	SP217	1106	0.0	1 ug/l	
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J45287-2	01-Nov-06	30-Nov-06	SP217	1106	0.0	1 ug/l	

J45287val xls

			7		¥andanon ∪ate	Sample	Location	Result Logs	Kasult Code RL Units Valid Result Valid Code
Lead, Total	7439-92-1	EPA 200.7	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	3 ug/l
Oil And Grease		EPA 1664A	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	00	5 mg/l
Ethylbenzene	100-41-4	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1:ua/l
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	O.0	1 ug/l
trans-1,3-Dichloropropene	10061-02-6	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
1,4-Dichlorobenzene	106-46-7	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	O ₀	1 ug/l
1,2-Dichloroethane	107-06-2	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
Toluene	108-88-3	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
Chlarobenzene	108-90-7	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	O 0	1 ug/l
Dibromochloromethane	124-48-1	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
Tetrachloroethene	127-18-4	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1.ug/l
Xylenes (total)	1330-20-7	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
cis-1,2-Dichloroethene	156-59-2	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
tans-1,2-Dichloroethene	156-60-5	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
1,3-Dichlorobenzene	541-73-1	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	O.º	1 ug/l
Carbon tetrachloride	56-23-5	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
Chloroform	67-66-3	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	11	1 ug/l
Benzene	71-43-2	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	∩°	1 ug/l
l,1,1-Trichloroethane	71-55-6	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.25 J	1 ug/l
Methyl bromide	74-83-9	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	O.o.	1 ug/l
Chloromethane	74-87-3	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	n o	1:ug/l
Chloroethane	75-00-3	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	<u>0</u>	1.ug/l
Vinyl chloride	75-01-4	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.56:J	2 ug/l
Methylene chloride	75-09-2	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	O o	1'gn:1
Bromoform	75-25-2	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	ე 0	1:ug/l
Bromodichloromethane	75-27-4	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	∩ °	1'gu:1
1,1-Dichloroethane	75-34-3	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	2.9	1 ug/l
1,1-Dichloroethene	75-35-4	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	1 ug/l
Trichlorofluoromethane	75-69-4	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	n o	2:ug/l
Dichlorodifluoromethane	75-71-8	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	∩.º	2 ug/l
1,2-Dichloropropane	78-87-5	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	<u>.</u>	1.ug/l
1,1,2-Trichloroethane	79-00-5	EPA 624	J45287-3	01-Nov-08	30-Nov-06	SP219	1106	O 0	1.ug/l
Trichloroethene	79-01-6	EPA 624	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	<u></u> 0	1.ug/l
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J45287-3	01-Nav-06	30-Nov-06	SP219	1106	0.0	1 ug/l
1,2-Dichlorabenzene	95-50-1	EPA 624	J45287-3	01-Nav-06	30-Nov-06	SP219	1106	∩	1 ug/l
Cyanide	57-12-5	335.3/LACH	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	∩ 0	0.01 mg/l
Aluminum, Total	7429-90-5	EPA 200.7	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	0.0	100 ug/l
Iron, Total	7439-89-6	EPA 200.7	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	∩.º	100 ug/l
Nickel, Total	7440-02-0	EPA 200.7	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	∩ 0	40 ug/l
Arsenic, Total	7440-38-2	EPA 200.7	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	∩ o	8 ug/l
Chromium, Total	7440-47-3	EPA 200.7	J45287-3	01-Nov-06	30-Nov-06	SP219	1106	⊃ °	10:ug/l
Copper, Total	7440-50-8	EPA 200.7	J45287-3	01-Nov-06	30-Nov-06	SP219	1106) 0	25 ug/l

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							LOCATION IN			Valid Result: Valid Code
Ethylbenzene	100-41-4	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	0 0	1 ug/l	# 10 .00 .00 .00 .00 .00 .00 .00 .00 .00
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J45287-4	01-Nov-06	30-Nov-06	ž	TRIP BLANK	0 0	1 ug/l	
trans-1,3-Dichloropropene		EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	0	1.ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J45287-4	01-Nov-06	30-Nov-06	ž	TRIP BLANK	0	1.ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	0.0	1 ug/l	
Toluene	108-88-3	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	0	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J45287-4	01-Nov-06	30-Nov-06		TRIP BLANK	0.0	1 ug/l	
Tetrachloroethene	127-18-4	EPA 624	J45287-4	01-Nov-06	30-Nov-06	:	TRIP BLANK	0.0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J45287-4	01-Nov-06	30-Nov-06	• • • • • • • • • • • • • • • • • • • •	TRIP BLANK	0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J45287-4	01-Nov-06	30-Nov-06	:	TRIP BLANK	0	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J45287-4	01-Nov-06	30-Nov-06		TRIP BLANK	0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J45287-4	01-Nov-06	30-Nov-06	:	TRIP BLANK	00	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	∩ °	1 ug/l	
Chloraform	67-66-3	EPA 624	J45287-4	01-Nov-06	30-Nov-06	····	TRIP BLANK) 0	1.ug/l	
Benzene	71-43-2	EPA 624	J45287-4	01-Nov-06	30-Nov-06		TRIP BLANK	0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	0 0	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	O 0	1 ug/l	
Chloromethane	74-87-3	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	O 0	1 ug/l	
Chloroethane	75-00-3	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	⊃ °	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK) 0	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J45287-4	01-Nov-06	30-Nov-06	ž	TRIP BLANK) 0	1 ug/l	
Bromoform	75-25-2	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J45287-4	01-Nov-06	30-Nov-06	ž	TRIP BLANK	∩ °	1 ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	⊃ °	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	<u></u> 0	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	∩ 0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	∩ °	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	⊃ °	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J45287-4	01-Nov-06	30-Nov-08	ž	TRIP BLANK) 0	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	⊃ °	1 ug/l	
1,1,2,2-Tetrachloroethane		EPA 624	J45287-4	01-Nov-06	30-Nov-06	Š	TRIP BLANK	∩ °	1 ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J45287-4	01-Nov-06	30-Nov-08	Š	TRIP BLANK) 0	1 ug/l	
Aluminum, Dissolved	7429-90-5	EPA 200.7	J45287-1F	01-Nov-06	30-Nov-06	SP114	1106	⊃	100 ug/l	
Aluminum, Dissolved	7429-90-5	EPA 200.7	J45287-3F	01-Nov-06	30-Nov-06	SP219	1106	∩	100 ug/l	

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DATA USABILITY SUMMARY REPORT FOR DECEMBER 2006 MONTHLY COMPLIANCE MONITORING

ATLANTIC RICHFIELD COMPANY FORMER SINCLAIR REFINERY SITE (OU2) WELLSVILLE, NEW YORK

Three groundwater samples and one field QC trip blank were collected from the Former Sinclair Refinery Site in Wellsville, New York on December 6, 2006. These samples were received by Accutest Laboratories (Accutest) within one day of collection on December 7, 2006. These samples were analyzed by Accutest for halogenated volatile organic compounds (VOCs) and the VOCs benzene, toluene, ethylbenzene, and total xylenes (BTEX) using the USEPA method 624; total metals using the USEPA method 200.7; total cyanide using the USEPA method 335.3; and oil and grease using the USEPA SW-846 method 1664A. Analytical results from these project samples were validated and reviewed by On-Site Technical Services, Inc. (On-Site) for usability in accordance to the USEPA Region II SOPs for organic and inorganic data review.

SUMMARY

The groundwater samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received by Accutest at 4°C. All samples were received intact and in good condition at Accutest.

The analytical data package generated by Accutest (Accutest Job # J48524) was received by On-Site within 29 days of sample receipt at the laboratory, reviewed, and validated for custody documentation, holding times, surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, laboratory method blank contamination, trip blank contamination, instrument calibrations, internal standard responses, laboratory duplicate precision, quantitation limits, and data completeness. The laboratory sample data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,

"UJ" - estimated and not detected at the value given,

"J" – estimated at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in the attached table with the "Valid Result" and "Valid Code" columns representing changes in laboratory data resulting from data validation. Therefore, the nondetected cyanide result

for sample SP219-1206 was considered unusable and qualified "R" in the "Valid Code" column as a result from data validation.

VOLATILE ORGANIC ANALYSIS

The following items were reviewed for compliancy in the volatile method 624 analyses:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- GC/MS instrument performance
- Initial and continuing calibrations
- Laboratory method blank and trip blank contamination
- Internal standard responses
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols. Therefore, the volatile data presented by Accutest were 100% complete with all data considered usable and valid.

INORGANIC AND OIL AND GREASE ANALYSIS

The following items were reviewed for compliancy in the metals method 200.7, total cyanide method 335.3, and oil and grease method 1664A analyses:

- Custody documentation
- Holding times
- MS recoveries
- LCS recoveries
- Laboratory duplicate precision
- Instrument calibrations
- Interference check sample
- Laboratory method blank contamination
- ICP serial dilutions
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS recoveries.

All MS recoveries were compliant and within QC acceptance ranges with the exception of the extremely low recovery for cyanide (27.6%R; QC limit 75-125%R). As a result, the nondetected cyanide result for sample SP219-1206 was considered unusable and qualified "R".

Therefore, the inorganic data and the oil and grease data presented by Accutest were 95.2% complete (i.e., usable).

It was noted that during the review of the metals sample data, the laboratory inadvertently mislabeled the bottles prior to analysis for samples SP114-1206 and SP219-1206. As a result, total metals were not detected for sample SP114-1206 while sample SP219-1206 detected total arsenic and total iron at concentrations of 44.2 and 34,700 μ g/L, respectively. These samples were reanalyzed with total arsenic and total iron confirmed present in sample SP114-1206 at concentrations of 113 and 48,300 μ g/L, respectively, and total metals were confirmed absent in sample SP219-1206 which is consistent with historical data. Based upon historical data for these samples and the reanalysis of these samples confirming the presence of total arsenic and total iron for sample SP114-1206 and the absence of total metals for sample SP219-1206, the original sample results were reported in the validated data table with total arsenic and total iron reported for sample SP114-1206 at concentrations of 44.2 and 34,700 μ g/L, respectively, and nondetected results reported for sample SP219-1206.

Analyte	Casno	Method	Labsampid	Date Sampled	Validation Date	Sample	Location	Result Code	Rt. Units Va	Units Valid Result Valid Code
Ethylbenzene	100-41-4	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	∩ 0	1 ug/l	76 0 10 10 10 10 10 10 10 10 10 10 10 10 1
cis-1,3-Dichloropropene	10061-01-5 EPA 624	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	Ω°	1 ug/l	
trans-1,3-Dichloropropene	10061-02-6	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	<u> </u>	1 ug/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	0.0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	0.0	1 ug/l	
Toluene	108-88-3	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	<u>∩</u> °	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	ņ	1.ug/l	
Dibromochloromethane	124-48-1	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	D _o	1:ug/l	
Tetrachloroethene	127-18-4	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	∩ °	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	Ω°	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	1.3	1 ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	∩ o	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206) O	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	Ω°	1 ug/l	
Chloroform	67-66-3	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	1.3	1.ug/l	:"
Benzene	71-43-2	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	00	1:ug/I	
1,1,1-Trichloroethane	71-55-6	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	0.31 J	1 ug/l	
Methyl bromide	74-83-9	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	D o	1:ug/l	
Chloromethane	74-87-3	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	O _o	1/gn:1	:
Chloroethane	75-00-3	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	⊃ °	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	∩ °	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	0 0	1'ug/l	
Bromoform	75-25-2	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	٥	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	0.38 J	1.ug/l	
1,1-Dichloroethane	75-34-3	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	2.9	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	∩ °	1 ug/l	
Trichlorofluoromethane	75-69-4	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206		2:ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	∩ °	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	D o	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	∩ °	1 ug/l	
Trichloroethene	79-01-6	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	⊃ °	1 ug/l	:
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	<u>⊃</u> °	1.ug/l	
1,2-Dichlorobenzene	95-50-1	EPA 624	J48524-2	06-Dec-06	09-Jan-07	SP217	1206	∩ •	1 ug/l	

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Analyte casho Method	Casho	Method	Labsampid	Date Sampled	Validation Date	Sample	Location	Result Code	Rt Units Valid Result Valid Code	of Code
Oil And Grease		EPA 1664A	J48524-3	06-Dec-06	09-Jan-07	SP219	1206		5.1 mg/l	P4000000000000000000000000000000000000
	100-41-4	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	⊃ °	1 ug/l	:
cis-1,3-Dichloropropene	10061-01-5 E	5 EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206) 0	1 ng/	: -
bene	10061-02-6	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	O O	1 uo/l	
1,4-Dichlorobenzene	106-46-7	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206) O	1 ug/l	:
oroethane	107-06-2	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	O o	1 ug/l	
	108-88-3	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	O o	1 ug/l	:
Chlorobenzene	108-80-7	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	O o	1 ug/l	:
Dibromochloromethane	124-48-1	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	O.o.	1 100/	
Tetrachloroethene	127-18-4	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	Ω°	1 00/	
Xylenes (total)	1330-20-7	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	<u> </u>		
cis-1,2-Dichloroethene	156-59-2	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	٥٥	1 ug/	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.0	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J48524-3	08-Dec-06	09-Jan-07	SP219	1206	0	1 ug/l	
Chloroform	67-66-3	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	1.3	1 ug/l	
Вепzепе	71-43-2	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0 0	1 ug/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.35.J	/bn·L	
Methyl bromide	74-83-9	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	 0	No.	
Chloromethane	74-87-3	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0	1.ug/l	
Chloroethane	75-00-3	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.0	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.79.J	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J48524-3	06-Dec-06	09~Jan~07	SP219	1206	0	1 ug/l	:
Bromoform	75-25-2	EPA 624	J48524-3	06-Dec-06	09~Jan-07	SP219	1206	0.0	1 ug/	
Bromodichloromethane	75-27-4	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.22 J	/gul	
1,1-Dichloroethane	75-34-3	EPA 624	J48524-3	06-Dec-06	09~Jan-07	SP219	1206	3.5	/an.t	
1,1-Dichloroethene	75-35-4	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	 O.	/60/	
Trichlorofluoromethane	75-69-4	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0 0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.0	1 ug/l	7
Trichloroethene	79-01-6	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	00	1 ug/l	
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.0	1/gul	·
1,2-Dichlorobenzene	95-50-1	EPA 624	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.0	1 ug/l	
Cyanide	57-12-5	335.3/LACH	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0	0.01 mg/l	
Aluminum, Total	7429-90-5	EPA 200.7	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	∩•	100 ug/l	
Iron, Total	7439-89-6	EPA 200.7	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	⊃ •	100 ug/l	
Lead, Total	7439-92-1	EPA 200.7	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	<u>`</u>	3 ug/l	
Nickel, Total	7440-02-0	EPA 200.7	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0.0	40 ug/l	:
Arsenic, Total	7440-38-2	EPA 200.7	J48524-3	06-Dec-06	09~Jan-07	SP219	1206	0 0	8 ug/l	
Chromium, Total	7440-47-3	EPA 200.7	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	0 0	10 ug/l	
Copper, Total	7440-50-8	EPA 200.7	J48524-3	06-Dec-06	09-Jan-07	SP219	1206	∩ °	25 ug/l	:

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Analyte	casno Method	Method	Labsampid	Date Sampled	Validation Date	Sample	Location R	asult Code	RL Units Vald Result Valid Code	Result Valid Code
Ethylbenzene	100-41-4	EPA 624	J48524-4	06-Dec-06	09-Jan-07	Š	TRIP BLANK	o O	1 ug/l	
cis-1,3-Dichloropropene	10061-01-5	EPA 624	J48524-4	08-Dec-06	09-Jan-07	š	TRIP BLANK	0.0	1/bn:1	
trans-1,3-Dichloropropene	10061-02-6 EPA 624	EPA 624	J48524-4	06-Dec-06	09-Jan-07	ž	TRIP BLANK	0	1/gn L	
1,4-Dichlorobenzene	106-46-7	EPA 624	J48524-4	06-Dec-06	09-Jan-07	Š	TRIP BLANK	0	1 ug/l	
1,2-Dichloroethane	107-06-2	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0	1 ug/l	
Toluene	108-88-3	EPA 624	J48524-4	06-Dec-06	09-Jan-07	Š	TRIP BLANK	0	1 ug/l	
Chlorobenzene	108-90-7	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	⊃ •	1 ug/l	
Dibromochloromethane	124-48-1	EPA 624	J48524-4	06-Dec-06	09-Jan-07	Š	TRIP BLANK	0	1 ug/	
Tetrachloroethene	127-18-4	EPA 624	J48524-4	06-Dec-06	09-Jan-07	Š	TRIP BLANK	0	1 ug/l	
Xylenes (total)	1330-20-7	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0	1 ug/l	
cis-1,2-Dichloroethene	156-59-2	EPA 824	J48524-4	06-Dec-06	09-Jan-07	ž	TRIP BLANK	⊃	1, ug/l	
trans-1,2-Dichloroethene	156-60-5	EPA 624	J48524-4	06-Dec-06	09-Jan-07	Š	TRIP BLANK	0	1 ug/l	
1,3-Dichlorobenzene	541-73-1	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	00	1 ug/l	
Carbon tetrachloride	56-23-5	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	∩ °	1 ug/l	
Chloroform	67-66-3	EPA 624	J48524-4	06-Dec-06	09-Jan-07	N N	TRIP BLANK	0	1/gn L	: :
Benzene	71-43-2	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0	1.ng/l	
1,1,1-Trichloroethane	71-55-6	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0	1/gn L	
Methyl bromide	74-83-9	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	∩ •	1 ug/l	· · · · · · · · · · · · · · · · · · ·
Chloromethane	74-87-3	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	<u>0</u>	1/gn:1	
Chloroethane	75-00-3	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	<u></u> 0	1 ug/l	
Vinyl chloride	75-01-4	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0	2 ug/l	
Methylene chloride	75-09-2	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	∩ •	1 ug/l	
Bromoform	75-25-2	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0	1 ug/l	
Bromodichloromethane	75-27-4	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0	1.0g/	
1,1-Dichloroethane	75-34-3	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0.0	1 ug/l	
1,1-Dichloroethene	75-35-4	EPA 624	J48524-4	06-Dec-06	09-Jan-07	Š	TRIP BLANK	∩ 0	1 ugul	
Trichlorofluoromethane	75-69-4	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	0	2 ug/l	
Dichlorodifluoromethane	75-71-8	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	<u>⊃</u> 0	2 ug/l	
1,2-Dichloropropane	78-87-5	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	⊃ 0	1 ug/l	
1,1,2-Trichloroethane	79-00-5	EPA 624	J48524-4	06-Dec-06	09-Jan-07	ž	TRIP BLANK	ე:0	1.ug/l	
Trichloroethene	79-01-6	EPA 624	J48524-4	06-Dec-06	09-Jan-07	Š	TRIP BLANK	0	1.ug/l	
1,1,2,2-Tetrachloroethane	79-34-5	EPA 624	J48524-4	06-Dec-06	09-Jan-07	ž	TRIP BLANK	<u></u> 0	1.ug/l	
1,2-Dichloroberizene	95-50-1	EPA 624	J48524-4	06-Dec-06	09-Jan-07	¥	TRIP BLANK	<u></u>	1 ugd	
Aluminum, Dissolved	7429-90-5	EPA 200.7	J48524-1F	06-Dec-06	09-Jan-07	SP114	1206	0	100 ug/l	
Aluminum, Dissolved	7429-90-5	EPA 200.7	J48524-3F	06-Dec-06	09-Jan-07	SP219	1206	<u>∩</u>	100 ug/l	

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