BTC Project
Environmental and Social Annual Report (Operations Phase)
2008

BTC Project
Environmental and Social Annual Report (Operations Phase)
2008

TABLE OF CONTENTS

CASE STUDIES

ABBREVIATIONS

ACG	-	Azeri, Chirag, Gunashli (offshore oil fields)
AGI	-	Above Ground Installation
APLR	-	Association for the Protection of Landowners Rights
ASA	-	Advanced Safety Audit
AzSPU	-	Azerbaijan Strategic Performance Unit
bbl	-	Barrel
BIL	-	Botaş International Ltd
BNB	-	See RUDF
BOD	-	Biochemical Oxygen Demand
BTC	-	Baku-Tbilisi-Ceyhan Pipeline
BTEX	-	Benzene, Toluene, Ethyl Benzene and Xylene
CARE	-	CARE International NGO
CAS	-	Centre for Archaeological Studies, Georgia
CBG	-	Caucasian Black Grouse
CBO	-	Community Base Organization
CCIC	-	Consolidated Contractors International Company
CDAP	-	Caspian Development Advisory Panel
CIP	-	Community Investment Programme
CLO	-	Community Liaison Officer
CMAS	-	Competency Management and Assessment System
CMT	-	Ceyhan Marine Terminal
CO2	-	Carbon dioxide
COD	-	Chemical Oxygen Demand
COPE	-	Conflict Prevention through Environmental Awareness for Youth
CWAA	-	Central Waste Accumulation Area
DAFWC(F)	-	Days Away From Work Cases (Frequency)
dB	-	Decibel
DRC	-	Development Resource Centre
DSA	-	Designated State Authority (Turkey)
E&S	-	Environmental and Social
EBRD	-	European Bank of Reconstruction and Development
EDDF	-	Emergency Drain Down Facility
EHC	-	Environmental Health Criteria
EIA	-	Environmental Impact Assessment
EIP	-	Environmental Investment Programme
EMS	-	Environmental Management System
ERM	-	Consulting Company Environmental Resource Management Ltd
ESA	-	Ecologically Sensitive Area
ESAP	-	Environmental and Social Action Plan
ESD	-	Emergency Shutdown
ESER	-	Environmental and Social Evaluation Report
ESIA	-	Environmental and Social Impact Assessment

EU	-	European Union
GEF	-	Global Environmental Facility
GIOC	-	Georgian International Oil Company
GIS	-	Geographical Information System
GHG	-	Greenhouse Gas
GTZ	-	Deutsche Gesellschaft fur Technische Zusammerarbeit (NGO)
H&S	-	Health and Safety
H1	-	First half of year (January – June)
H2	-	Second half of year (July – December)
HGA	-	Host Government Agreement
HiPo(f)	-	High Potential Incident (frequency)
HIV	-	Human Immunodeficiency Virus
HSE	-	Health, Safety and Environment
HSSE	-	Health, Safety, Social and Environment
IBA	-	Important Bird Area
IBC	-	International Blue Crescent
IEC	-	Lenders' Independent Environmental Consultant
IFC	-	International Finance Corporation
IFI	-	International Finance Institution
IGA	-	Inter Government Agreement
IMC	-	International Medical Corps
IMS	-	Incident Management System
IoAE	-	Azerbaijan Institute of Archaeology and Ethnography
IoB	-	Azerbaijan Institute of Botany
IP	-	Implementing Partners
IPA	-	Important Plant Area
IPLOCA	-	International Pipeline and Offshore Contractors Association
IPT	-	Intermediate Pigging Station (Turkey)
ISO	-	International Standards Organisation
ISP	-	Improved Schools Project
IUCN	-	International Union for Conservation of Nature and Natural Resources
KP	-	Kilometre Point
KPI	-	Key Performance Indicator
LLC	-	Limited Liability Company
LP	-	Low pressure
MENR	-	Ministry of Ecology and Natural Resources (of Azerbaijan)
MOC	-	Management of Change
MoE	-	Ministry of Environment (Georgia)
MOL	-	Main Oil Line
NACRES	-	Noah's Ark Centre for Recovery of Endangered Species (NGO)
NDVI	-	Normalised Difference Vegetation Index
NGO	-	Non-Governmental Organisation
NOx	-	Nitrogen Oxides

OSI	-	Open Society Institute (Azerbaijan)
OSR	-	Oil Spill Response
OSRB-	-	Oil Spill Response Base
OSRP	-	Oil Spill Response Plan
PAC	-	Provisional Acceptance
PM	-	Particulate Matter
PSA	-	Pump Station, Azerbaijan
PSG	-	Pump Station, Georgia
PT	-	Pump Station, Turkey
PTW	-	Permit to Work
Q1/Q2/Q3/Q4	-	Quarter 1 / Quarter 2 / Quarter 3 / Quarter 4
QIP	-	Quick Impact Project
RAP	-	Resettlement Action Plan
RDI	-	Regional Development Initiative
RINJ	-	Recordable Injuries
ROW	-	Right of Way
RUDF	-	Rural and Urban Development Foundation (now called BNB)
SARMS	-	Special Area Reinstatement Method Statement
SCP	-	South Caucasus Pipeline
SES	-	Seacor Environmental Services
SESMeke	-	Joint Venture between SES and Meke Marine,
SIF	-	Small Investments Fund
SLAP	-	Supplementary Land Acquisition Programme
SLCC	-	State Land and Cartography Committee
SME	-	Small and Medium Enterprises
SO2	-	Sulphur Dioxide
SPJV	-	(Amec) Spie Petrofac Joint Venture
SPPD	-	State Pipeline Protection Department (Georgia)
SRAP	-	Social and Resettlement Action Plan
SSPS	-	Special State Protection Services (Azerbaijan)
STP	-	Sewage Treatment Plant
TOC	-	Total Organic Compound
TPH	-	Total Petroleum Hydrocarbons
TVA(R)	-	Traffic Vehicle Accident (Rate)
UN	-	United Nations
UNDP	-	United Nations Development Programme
VOC	-	Volatile Organic Compound
VPI	-	Vulnerable People Initiative
WHO	-	World Health Organisation
WWTP	-	Waste Water Treatment Plant

EXECUTIVE SUMMARY

BTC Co. (hereinafter BTC) and its agents have complied with the Environmental and Social Action Plan (ESAP), applicable Environmental Laws and applicable Lender Environmental Policies and Guidelines in all material respects during the period covered by this report. There were no fines or penalties incurred for environmental or social non-compliances, and no material environmental claims against BTC during 2008.

All non-compliances that were identified during Independent Environmental Consultant (IEC) and Social and Resettlement Action Plan (SRAP) audits in 2008 are detailed in the Appendices of this report. Information is also given on the actions developed and implemented to address these non-compliances.

There were three Class III changes submitted to lenders for approval; all related to the management of waste in Azerbaijan. There were no ESIA addenda submitted.

In May 2008 BTC stopped the use of the Iagluja waste disposal site in Georgia, having implemented a number of programmes for the temporary treatment or storage of non-hazardous waste until the dedicated BTC landfill site is operational in 2009.

In January BIL in Turkey was accredited against the ISO14001 standard for environmental management. In May BTC in Azerbaijan and Georgia were audited against ISO14001 and was found to be in compliance with the standard. As a consequence, BTC was brought within the scope of BP Azerbaijan's ISO14001 certification.

Emissions monitoring for the operations phase continued and results were generally in compliance. As in 2007 monitoring of gas turbine exhaust gases showed some exceedances of NOx levels, believed to be due to the turbines operating at low load conditions. There were a number of cases where monitoring of aqueous effluents indicated that some parameters exceeded project standards. In such cases the effluent was not discharged to the environment but was taken to a treatment plant for final disposal.

In 2007 the Export Pipeline Patrol Department (EPPD) of the Republic of Azerbaijan expressed its wish to continue to patrol the BTC right of way (ROW) using motor vehicles. This use of the ROW was contrary to BTC's commitment of "no driving on the right of way". Consequently an Access Strategy was approved by the Lenders which included leasing a 6m track along the ROW as a means of providing compensation to landowners. In 2008 EPPD committed itself to ending vehicle access, with security being provided by horse patrols and other means, such as aerial surveillance. By the end of the year less than 10% of the ROW was still being driven on by EPPD. Consequently BTC took the decision to hand the land back to its owners, with compensation for damage by patrols, if any, being the responsibility of EPPD.

The most significant incident of 2008 was the explosion, fire and consequent oil release at block valve 30 in Turkey. BTC adopted the strategy of allowing most of the oil to burn rather than attempt to extinguish the fire at an early stage. This allowed time for containment measures to be put in place. This strategy resulted in almost no oil being released to the nearby river. However about 1500 m^3 of soil was contaminated by the release and this has been excavated and stockpiled for remediation or disposal. Soil and groundwater monitoring is planned for 2009 in order to quantify the extent of any other contamination and to help plan further remediation, if required.

Apart from the incident at BVT30 there were seven minor uncontained hydrocarbon (crude, diesel and lube oil) releases reported in 2008 all of which were less than one barrel in volume.

BTC continued to benefit communities in all three countries through their Community Investment Programmes and Environmental Investment Programmes. In 2008 over $6 million was invested in these programmes.

1 INTRODUCTION

2008 was the third year of operating the BTC pipeline. By the end of the year over 500 million barrels of oil had been exported by BTC since the first tanker was loaded at Ceyhan on 4th June 2006.

This BTC Annual Environmental and Social (E&S) Report has been prepared and structured in accordance with the requirements of Annex J of the ESAP governing construction of BTC and Annex H of the ESAP governing the operations phase of BTC. These requirements are reproduced in Appendix 1. It is the fifth Annual E&S Report post-financing and covers the calendar year 2008[1].

2 ESIAs / EIA AND PERMITTING

2.1 SUMMARY OF ANY MATERIAL MODIFICATIONS TO THE ESIAs[2]

2.1.1 Azerbaijan

There were no material modifications made to the BTC Azerbaijan ESIA in 2008.

2.1.2 Georgia

There were no material modifications made to the BTC Georgia ESIA in 2008.

2.1.3 Turkey

There were no material modifications made to the BTC Turkey ESIA in 2008.

A Management of Change (MOC) for expansion of the BTC system will be issued in 2009.

2.1.4 Cross-Country Permitting Activity related to the Expansion of BTC

It was reported in the 2007 Annual report that as envisaged under the BTC Host Government Agreements (HGA), work on expanding the system to a capacity of 1.2 million barrels per day was underway. At the end of 2008 this project was in late Execute[3] and Operate was due to commence early 2009. Appropriate dialogue with the regulatory authorities has taken place, resulting in the following outcomes:

- In Azerbaijan and Georgia no extension beyond existing site boundaries is needed to enable an increase in throughput to 1.2 mmbd. It was therefore agreed with the regulator that no ESIA Addenda were required. However, a project description together with updated Environmental Risk Assessments (ERA), were submitted to both governments in 2007. Workshops were also held to support and explain the documentation and dialogue continued in 2008 as required.

[1] While construction started in 2003-Q2, the financing for the project was finalised in early 2004-Q1.
[2] Environmental and Social Impact Assessment. Note that in Turkey the formal terminology is EIA (Environmental Impact Assessment).
[3] BP projects are divided into five main stages: Appraise, Select, Define, Execute and Operate. The first three stages correspond to the initiation, planning and design of a project and execute corresponds to the implementation of the Project.

- In Turkey, expansion to 1.2 mmbd required minor expansion outside the existing site boundary at two block valves (BVT 48 and BVT 50) and will increase shipping traffic and loading of crude at Ceyhan Marine Terminal. For these reasons it was agreed with the regulators that a Preliminary EIA report would be prepared (also supported by the ERA and Oil Spill Response Capability documents). This document package was submitted in 2007 and on the 29th January 2008 the Turkish Ministry of Environment and Forestry agreed that an EIA was not required.

A document package consistent with that submitted to the regulatory authorities, together with a MOC Note was also submitted to the Lenders and their environmental consultants on 24th March 2008. In terms of ESAP MOC requirements, BTC ascribed this change a Level II MOC. Although a Level II MOC does not require any formal acceptance by the IEC and is only required to be available for review during the annual monitoring visit, BTC elected to circulate the documents ahead of the June visit, to allow a greater understanding of the studies that have been undertaken to support the proposed expansion. A response was received on 23rd April with a recommendation concerning plans and procedures at Ceyhan Terminal and a request for the DRA MSDS.

2.2 SUMMARY OF MATERIAL PERMITS ISSUED IN 2008

2.2.1 Azerbaijan

In 2008 the following environmental permits for BTC Azerbaijan were obtained from the Azerbaijan government:

- MENR approval for the expansion of the BTC pipeline capacity to 1.2mmbd
- MENR approval for the Small Scale Erosion Control Works at River Crossings on BTC, SCP and WREP Right of Way (ROW).

2.2.2 Georgia

A summary of Statutory Environmental Permits acquired by BTC Georgia in 2008 is as follows:

- Forest Use Agreement for the allocation of additional forest lands for the construction of secondary containment sites (CSS).
- Forest Use Agreement for the allocation of forest lands for the construction of BV 19 and 21 access roads.
- Forest Use Agreement for the allocation of forest lands for the extension of PSG 2 Access Road.
- EIA Approval Permit for the construction of a Non Hazardous Landfill in Gardabani.

2.2.3 Turkey

During 2008 the following activities took place with respect to material permits in Turkey:

- The Building Use Permits for PT1 and PT2 were obtained in 2008 by BIL (Building Permits for all other facilities already exist).
- Preliminary and Highway Connection permit for Access Road to PT3 was obtained in 2008 (Permits for all other AGIs (including the BVTs) already exist).
- Emergency Response Plan related to the Law # 5312 (Response to Emergencies and Compensation of Losses in Case of Pollution of the Marine Environment from Oil and Other Harmful Substances) was submitted to Ministry of Environment and Forestry (MoEF) by BIL in May 2008.

- Non-Hygienic Establishments Operation Permits applications for permanent permits were lodged for each facility and the pipeline in 2007. Permanent permits have been obtained for the pipeline and facilities in Osmaniye, Kayseri, Gumushane and Kars Provinces in 2007. The permits for Adana, Erzincan, Erzurum, Sivas, Ardahan and Kahramanmaras Provinces can only be obtained when relevant facility air emission permits facilities are in place. Applications for air emission permits for these facilities were renewed in August 2008; the permits are pending. Once they have been received from MoEF, applications for Non-Hygienic Establishments Operation Permits for the 6 provinces will be submitted. This is expected to occur in 2009.
- All State Hydraulic Works Groundwater utilization permits for groundwater wells at pump stations and at CMT were transferred from Botaş Project Directorate to BIL in 2008.

2.3 UPDATE ON STATUS OF PROJECT SPECIFIC REQUIREMENTS FOR FURTHER WORK UNDER THE ESIAS OR PERMITS

A summary of country-specific activities relating to ongoing studies or surveys as required under the ESIAs or permits is given below. Studies or surveys noted as completed in the 2007 Annual report are not shown.

2.3.1 Azerbaijan

The only 'Additional ESIA Study and Survey' as specified in the Operations ESAP relates to a groundwater monitoring programme.

Study/Survey:	**Expected Timing:**
Groundwater Monitoring Programme	Monitor water level and quality: Ongoing
Ref: 2004-Q1 (p5-3); 2004-Q2 (p3-3); 2004-Q3 (p3-2); 2004-Q4 (p3-2); 2005-Q1 (p3-2); 2005-Q2 (p3-2); 2005-Q3 (p3-2); 2005-Q4 (p3-1), 2006-H1 (p3-1), 2007 (p4)	
Groundwater monitoring was carried out according to the ESAP requirements in May 2008 and November 2008. A summary of results is given in Section 4.2.1.5 and the data sheets are presented in Appendix 2.	
Completion Status: ONGOING	

In the Construction ESAP there was a requirement to translocate *Iris acutiloba* off the ROW prior to construction. This requirement was fulfilled, and monitoring of the success of the relocation was ongoing in 2008. Similarly, Cultural Heritage programme Phase V (Analysis and Reporting) was ongoing during 2008. A summary of the results of both these surveys are given below:

Study/Survey:	**Expected Timing:**
Iris acutiloba Monitoring Programme	Monitoring: Ongoing
Ref: 2004-Q1 (p5-2); 2004-Q2 (p3-2); 2004-Q3 (p3-1); 2004-Q4 (p3-2); 2005-Q1 (p3-1); 2005-Q2 (p3-2); 2005-Q3 (p3-1); 2005-Q4 (p3-1), 2006-H1 (p3-1), 2007 (p5)	
Following two surveys in 2007 to assess *Iris acutiloba* survival rates, a further detailed field survey was carried out during March–April 2008 (the *Iris acutiloba* growing season). In total 6,127 individuals (19% of all bulbs transplanted) were successfully located using GPS and observed to be viable (either sprouting and visible above the ground, or alive but comprising only a dormant bulb beneath the soil surface). Of these, 4,274 were individuals in off-ROW locations (50% of those originally transplanted there); and 1,853 were individuals in on-ROW locations (8% of those originally transplanted there). Because it is extremely difficult to locate the dormant bulbs beneath the ground surface, relying on the GPS system (+/- 1 metre accuracy), it is preferable to gather data on the numbers of sprouting irises. It is not uncommon for natural (non-commercial) bulbs of this kind to remain dormant after transplantation for 3 or more years before sprouting. Given this, it is considered to be too soon to be able to make an informed judgement regarding the success of this programme. Further surveys shall be conducted during the 2009 and subsequent growing seasons, after which a more meaningful determination will be possible.	
Completion Status: ONGOING	

Study/Survey:	Expected Timing:
Cultural Heritage – Archaeology Phase V (Analysis and Reporting)	Phase V: Ongoing
Ref: 2004-Q3 (p3-2); 2004-Q4 (p3-2); 2005-Q1 (p3-2), 2005-Q2 (p3-2); 2005-Q3 (p3-2); 2005-Q4 (p3-1); 2006-H1 (p3-1), 2007 (p5)	

The Azerbaijan Institute of Archaeology and Ethnography (IoAE) finished working on reporting, logging and laboratory work related to artefacts unearthed along the BTC/SCP route in Azerbaijan. Cooperation with Smithsonian Institution continued with the following outcomes:

1. 40 technical reports and analyses of BTC/SCP archaeological findings.

2. Training of personnel from the Gobustan National State Reserve, Azerbaijan Institute of Archaeology and Georgia National Museum through internships provided by Smithsonian Institution. Training topics included: museum management; artefacts management and rock arts damage assessment; documentation and registration of monuments; storage and protection of materials; application of computer technologies; management of collections of scientific, literary and historical value; exhibitions management; and sustainable tourism development.

Completion Status: ONGOING

2.3.2 Georgia

Study/Survey:	Expected Timing:
Kodiana Special Projects and Other Legacy Projects	Monitoring: Projects / Operations
Ref: 2006-H1 (p3-2); 2007 (p-6)	

Construction of the Kodiana Emergency Drain Down Facility (EDDF) and Security Base was completed in 2008-Q4. Landscaping commitments relating to the Security base have been fully implemented, while landscaping for EDDF has been partially fulfilled. In addition, biorestoration and relocation of translocated species is planned for 2009-Q2. The status of other activities is as follows: construction of the secondary containment facilities is expected to be completed in 2009-Q3; construction of community and access roads is completed; Marneuli and Tsalka Camps were reinstated (100%) and handed back to the landowners; construction of the Oil Spill Response Base OSRB is underway (30%), and completion planned for 2009-Q3; construction of the Non-hazardous municipal landfill is in progress and will be completed in the beginning of 2009-Q2. Meanwhile, construction of Area 80 permanent Camp is planned to commence in 2009-Q2.

Completion Status: ONGOING

2.3.3 Turkey

Three 'Additional Studies and Surveys' continued in 2008, as per the construction ESAP. One of these (Marine Turtle Survey) also meets one of the requirements of the Operations ESAP.

Study/Survey:	Expected Timing:
Special Area Reinstatement Method Statement (SARMS) and associated surveys	Construction
Ref: 2004-Q1 (p5-9); 2004-Q2 (p3-6/7); 2004-Q3 (p3-5); 2004-Q4 (p3-5); 2005-Q1 (p3-4); 2005-Q2 (p3-4); 2005-Q3 (p3-4); 2005-Q4 (p3-4); 2006 Annual (p6); 2007 Annual (p7)	

This study/survey was merged with "Vegetation Cover, Vegetation Cover Recovery Trend and Potential Erosion Performance Assessments by Satellite Imagery and Field Assessment" (See "Other Studies" Section) and the results are presented as part of that study.

Completion Status: TRANSFERRED to another study.

Study/Survey: Landscape Plans and Monitoring for Facilities	**Expected Timing:** Construction and Operations
Ref: 2005-Q1 (p3-4); 2005-Q2 (p3-4); 2005-Q3 (p3-4); 2005-Q4 (p3-4); 2006 Annual (p6) ; 2007 Annual (p7)	
Site specific Landscaping Plans were prepared in mid 2008 following a full survey carried out by the Landscaping Supervisor. Both planning and implementation of landscaping activities were finalized in Autumn 2008 and handed over to BIL. The condition of the landscaping will be monitored during ad-hoc site visits and annual compliance audits by BTC. In parallel, BIL's ROW Monitoring and Maintenance Team will monitor the condition of the landscaping at facilities and take necessary action when required.	
Completion Status: ONGOING	

Study/Survey: Marine Turtle Survey	**Expected Timing:** Operations
Ref: 2004-Q1 (p5-10); 2004-Q2 (p3-8); 2004-Q3 (p3-6); 2004-Q4 (p3-5); 2005-Q1 (p3-5); 2005-Q2 (p3-6); 2005-Q3 (p3-6); 2005-Q4 (p3-5); 2006-H1 (p3-4), 2006 Annual (p7-8), 2007 Annual (p7)	

The annual marine turtle survey was conducted between June 1 and September 30, 2008. As previously, the survey was carried out on four small beaches near CMT. In 2008, a total of 160 *Chelonia mydas* (Green Turtle) nests and 1 *Caretta caretta* (Loggerhead Turtle) nest were found in the study area. In addition 191 non-nesting green turtles and two non-nesting loggerhead turtles were observed.

A summary of the number of nests observed this year compared to previous years is as follows:

	2002	**2003**	**2004**	**2005**	**2006**	**2007**	**2008**
Green Turtle	42	44	118	29	198	57	160
Loggerhead Turtle	18	3	3	7	0	1	1

In contrast to the 2007 survey results, the number of nests observed in 2008 increased almost three times. This is consistent with previous year-to-year fluctuations in nesting patterns and is thought to relate to the natural biological nesting cycle of the Green Turtle.

As reported in previous years, hatchlings did not appear to be disorientated by lights on the Botaş and CMT jetties when making their way from the nest to the sea. Hatchling success was quite high (83%) and comparable to last year (82%). The profile of predators was same as last year. Although there was no backward disorientation detected in previous surveys, it still needs to be taken into account. The effects of artificial lights may increase the time required for the hatchlings to travel from the nest to the sea, and hence the likelihood that a predator will be encountered.

The security fence built in 2007 by the petro-chemical facility on Sugozu beach was cut to an appropriate height to allow sea turtles and hatchlings to cross under the fence. Subsequent observations indicate that turtles and hatchlings movements were not constrained by this barrier. One of the foreseen adverse effects of the fence was that over time sand accumulation and vegetation growth along the fenceline were likely to restrict turtle movements. Evidence of these effects were observed by the end of the 2008 nesting season. Management has been informed and the effects will be monitored in forthcoming seasons.

Completion Status: ONGOING

2.4 OTHER STUDIES

2.4.1 Azerbaijan

There were two "Other" studies/surveys carried out in Azerbaijan in 2008:

Study/Survey:	Expected Timing:
Reinstatement & Biorestoration (Status of biorestoration (Vegetation Cover): April / May 2008	Operations

The results of the second year of this monitoring programme can be summarised as follows:

- There is an increasing trend in percentage vegetation cover on most sections of the ROW;
- Very few sections of the ROW have a vegetation cover equal to that of adjacent, undisturbed vegetation; and
- Some habitats are recovering more quickly than others.

The results also show that, as expected, vegetation re-growth is very slow in some habitats, particularly the semi-desert habitats characterised by arid and saline soils.

The next round of monitoring includes species diversity as well as vegetation cover and is scheduled to commence in April 2009.

Completion Status: ONGOING

Study/Survey:	Expected Timing:
BTC / SCP Biorestoration (Seeding)	Monitoring: Ongoing

The BTC and SCP projects have made a number of commitments through the ESIA process to ensure that areas disturbed during construction are returned as much as possible to their pre-disturbed condition. This objective was to be primarily achieved by creating conditions conducive to natural revegetation, augmented in places by direct seeding.

Visual observations along the pipeline identified some areas where direct seeding was required to prevent erosion and enhance natural re-growth. In 2008 a programme consisting of three phases was developed and implemented as follows:

- Phase 1: Collection of seeds from the specific pre-identified areas adjacent to the BTC/SCP ROW.
- Phase 2: Storage and threshing of the collected seeds.
- Phase 3: Sowing of the seeds in the required areas.

Completion Status: ONGOING

Study/Survey:	Expected Timing:
Landscape Monitoring of FCI-ROW	**Monitoring: Ongoing**

BTC committed to undertake landscape monitoring along FCI-ROW. The programme and corresponding methodology aims to record visual changes over time in order to demonstrate progress in restoring the landscape.

Monitoring commenced at 90 vantage points in 2005 and continues annually. The vantage points were selected to represent a cross-section of landscapes and features and include: rivers and streams crossings; slopes and gullies liable to erosion; areas with high visibility to communities/public; borrow pits; permanent AGIs, and BVs/CVs; temporary AGIs' areas; and road crossings within environmentally/socially sensitive areas.

Completion Status: ONGOING

2.4.2 Georgia

There were four 'Other' studies/surveys carried out in Georgia in 2008:

Study/Survey:	Expected Timing:
Biodiversity Monitoring off FCI-ROW	2009

Progress:

BTC committed to undertake a five-year programme for Biodiversity monitoring at off FCI-ROW locations. The programme consists of faunal (including ichthyofauna) and floral (including habitat) components and aims to identify any potential impact caused by pipeline construction and operational activities. It was launched in Spring 2004 and continued in 2008. Results of the 2008 monitoring are discussed in detail in the Annual Biodiversity Monitoring report, completed in 2009-Q1, and indicate an overall decrease of visible impacts caused by pipeline construction and operations activities.

In 2007 BTC and the MoE of Georgia agreed that an invasive species biannual survey would be conducted across BTC/SCP ROW in 2008. The survey revealed the presence of an invasive plant species (*Ambrosia aritemisiifolia*) on the ROW at a number of locations. As a result of the survey results, a mitigation plan was prepared.
A hydrological assessment of Spadefoot Toad breeding ponds, conducted as part of the faunal component of the biodiversity monitoring programme, concluded that a decline in population numbers is likely to be connected with general anthropogenic pressure (e.g. removal of ponds, intensive irrigation), and the introduction of predatory fish species such as Crucian Carp (*Carassius carassius*) into breeding ponds, and not to pipeline project activities (either current or past).
Ichthyological surveys were undertaken in 2008 and indicate an overall improvement in conditions compared with previous years. Monitoring will continue in summer 2009.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Landscape Monitoring of FCI-ROW	Operations

Progress:
BTC committed to undertake landscape monitoring along FCI-ROW. The objective of the programme was to systematically record visual changes at predetermined locations and therefore measure progress in restoring the landscape. The programme commenced in 2005 although the monitoring methodology was subsequently modified to ensure consistency with the requirements of the ESAP. The following features are now included in the scope: river and stream crossings; bear crossings; slopes and gullies liable to erosion; seismic faults; areas with high visibility to communities/public; borrow pits; permanent AGIs, including PSGs and Block Valves; temporary AGIs' areas; road crossings within environmentally/socially sensitive areas; and rare species reintroduction locations.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Monitoring surveys of vegetation cover and erosion risk assessment within BTC & SCP Right-of-Way (ROW)	Operations

Vegetation cover regrowth trends and erosion risk potential are being monitored annually. The vegetation cover trend results (2007-2008) and the results of an erosion risk assessment for 2008, are summarised below.
The vegetation cover monitoring surveys covered 49 sample points or transects established in 2007 based on random selection (applying sample generator software developed specifically for this project) among all the defined habitat types occurring along the pipeline corridor.
Vegetation cover trend analysis shows increased vegetation cover across the ROW and in almost all habitats. Over the period 2007/08, 15% of the ROW demonstrated an increase in cover of 100% or more. Moreover, just over 50% of the ROW demonstrated a 50% or more increase in cover between 2007 and 2008. At this stage no intervention is recommended as the colonization rate of the ROW seems fairly high.
The assessment of erosion potential along the ROW applying GIS-based USLE calculations demonstrates that there are no sites with erosion potential exceeding Erosion Class 4, on a scale of 1 (low) to 7 (high). This conclusion is confirmed by the findings of the independent field verification conducted by a specialist company – EGA.
The next round of monitoring includes species diversity as well as vegetation cover and is scheduled to commence in April 2009.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Botanical Survey of South Georgian Wetlands (Second year)	2007-2009

Progress:
To mitigate pipeline construction related impacts in wetland areas within the BTC/SCP ROW an agreement was reached between BTC and the MoE of Georgia to conduct botanical

surveys of wetlands in southern Georgia with the aim of identifying a high conservation value site worthy of protection status under the Ministry for Protection of Environment and Natural Resources of Georgia. Accordingly, field studies of 10 wetland sites on Javakheti Upland (South Georgia) were carried out between June-September 2008. During the field investigations, 198 plant taxa were recorded in 107 sample plots. No species listed under the Red List of Georgia were found to occur within the study sites however *Myosotis nemorosa* –species belonging *to* the *Myosotis scorpioides* group-was recorded for the first time in Georgia. Another *Myosotis* specimen is currently being examined as it may represent a new species. It is also possible that a new species of moss from genus *Dichodontium* (Dicaranaceae) was found. This assumption is currently being tested by experts in bryology.
In total, 26 different plant communities were distinguished in wetland habitats.
Based on the survey results, four sites have been proposed for protection status. These sites are Levangyol, Godorebi-Didi Abuli, Abulgyol and Agrikari-Emlikli. All sites listed above are situated on the southern slope of Samsari ridge. Examination of floristic quality showed that sites Didi Samsari and Kirkh-Bulagi support richer flora with higher number of rare and endemic species.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Bat Mitigation Pilot Project	2008-2009

Progress:
The 2003 pre-clearance surveys identified a total of 134 trees with hollows - potential shelters for the *Chiroptera* located within the ROW or adjacent Tetritskaro and Borjomi administrative districts (47 and 87 respectively). All these trees were destroyed as part of the ROW clearance. It was proposed to install artificial bat shelters in the forested areas adjacent to the ROW to mitigate this loss.
The pilot project involved installation of fifty artificial bat shelters in the vicinity of BTC / SCP pipeline ROW in Tetritskaro administrative district (KPs 88 and 91). Six different types of shelters were made in recognition of the different requirements of different species. Collectively these shelters can accommodate individuals of various sizes and even small colonies.
The shelters will be inspected in May-July 2009 to verify the presence of bats and therefore the effectiveness of this compensation measure. The information will also be helpful in selecting the optimum types of shelters for future use.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Rare floral species management programme	Operations

Progress:
Under the BTC/SCP rare floral species management programme populations of 11 species preserved at conservation centers were reintroduced to suitable habitats in late spring and early summer 2008. All plants were placed into plastic containers in 2007 to avoid transportation stress. Prior to translocation to the suitable habitats, all plants were weeded to remove competitors and prevent soil impoverishment. Populations of high conservation value species were planted predominantly along the edges of the ROW. It should be noted that *Dactylorhiza euxina*, *Dactylorhiza urvilleana*, *Orchis coriophora and Orchis palustris* were planted in wet meadow habitats in near to the ROW as no adequate habitats were found within the corridor. All other specimens were planted on the ROW in areas where vegetation has been successfully established to create a favorable environment for rapid adaptation of reintroduced individuals. GPS coordinates were recorded for each reintroduction site; the sites were marked with metal plates so that they can be located with metal detectors.
In total, 10,590 plants were reintroduced to the suitable habitats on and off-ROW. Total number of reintroduction sites is 14, of which 4 are located off-ROW and the remaining – on the ROW.
Surveys to assess survivability rates will take place twice during 2009. The survey methodology is described in Operations procedure “Evaluation of Reintroduction/Adaptation Success of Rare Species” (AZSPU-HSSE-DOC-00185-3).

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Survey of invasive common ragweed *Ambrosia artemisiifolia* and Reed Canary-Grass *Digraphys arundinacea* and in the vicinity of the BTC/SCP ROW	Operations

Progress:
The invasive species *Ambrosia artemisiifolia* has been detected along the BTC/SCP ROW. This species has the potential to affect both crop yields in adjacent agricultural fields (through seed dispersal). Populations of *Ambrosia* were analyzed at nine sites (two sites in the Tetritskaro district and seven sites in the Atskuri-Akhaltsikhe area) as a prelude to designing a pilot study to test the efficacy of a number of management options.
A pilot study using two herbicides (glyphosate and the grass tolerant clopyralid) and a cutting regime (using a brush cutter) is now proposed for 2009. The pilot study will target five sites where heavy *Ambrosia* infestations were recorded during the initial survey. For a more sustainable and long-term strategy, the following is proposed: (i) careful choice of locally adapted seed mixtures for restoring the pipeline habitats, and subsequent management to favour fast plant cover by grasses, such as through a grazing or cutting regime; (ii) biological control using highly specific natural enemies from the area of origin of *Ambrosia*. (The biological control option is presently being researched by Dzelkva Ltd, with Georgia potentially being one of the target countries); (iii) implementation of an early detection programme designed to identify potential exotic plant invaders in the pipeline corridor. Such a programme will require a training course for those BP personnel in charge of the surveillance and maintenance of the pipeline ROW.
In contrast, the Reed Canary-grass was only found in wetlands off the ROW. Furthermore the survey results concluded that this species does not form dense, highly productive single species stands, at least in the surveyed wetland ecosystems, and is therefore not seen as threat to local biodiversity.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Assessment of trees and shrubs survival	Operations

Progress:
In total, twenty-three planted sections along the BTC / SCP Right-of-Way (ROW) were surveyed in summer, 2008 to determine tree and shrub survival rates. In these sites 99,056 trees and 14,873 shrubs were planted from spring 2006 to autumn 2007.
The surveys revealed that 1,943 trees and 361 shrubs survived. The remaining had either died back or were missing. Mean survival rate of trees was calculated as 2% and that of shrubs 2.4%. These results are a fraction of the 75% survival performance target. The major factors affecting the low success of planting were water deficiency, grazing / trampling, weed impact, poor soil conditions and vandalism (removal of saplings and stakes by third parties). Unusually low temperatures during spring vegetative period, frosts and strong winds as well as insufficient snow cover may have affected the saplings planted in some sites at higher altitudes (above 1,500 m amsl).
Site-specific recommendations are given in the survey report.

Completion Status: ONGOING

2.4.3 Turkey

Seven other studies were carried out in 2008 in Turkey. Details are as follows:

Study/Survey:	**Expected Timing:**
Fauna Survey (Caucasian Black Grouse) at ESA1	Until mid-2008

Ref: 2005-Q3 (p3-8); 2005-Q4 (p3-6); 2006-H1 (p3-5); 2007 Annual (p10)

Two monitoring field visits were carried out in 2008. A better understanding of breeding dynamics during the project identified seasonal constraint period, and general behaviour dynamics of the local Black Grouse population was developed as part of this three year long monitoring study.

Completion Status: COMPLETED

Study/Survey:	**Expected Timing:**
Vegetation Cover, Vegetation Cover Recovery Trend and Potential Erosion Performance Assessments by satellite imagery and field assessment	Operations
Ref: 2006 Annual (p8-9); 2007 Annual (p10)	

Demand by various customers for satellite images in the region, together with unfavourable weather (cloud) conditions, resulted in insufficient coverage of the Turkey section of the ROW during 2008. Therefore the 2008 acquisition programme has been transferred to 2009.
Results of the 2007 satellite monitoring programme (completed in 2008) were accepted by BIL. About 90 locations which were estimated to have both high erosion risk and negative vegetation cover trend. 10 % of these locations were designated to the maintenance programme, about 20% were included in the monitoring programme and the rest were deemed to have been overestimated by the model and were closed-out. The root-cause of the overestimation in the 2007 analysis is under investigation.
The 2006 analyses predicted erosion classes within +/- 1 (at a scale of 7) margin with accuracy of 75% (out of some 200 ground verification points) which was deemed to be a success.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Tree and Shrub Survival Monitoring	Operations
Ref: 2007 Annual (p10-11)	

It was concluded in 2008 that reforestation on the ROW where there are human activities (grazing, agriculture) is not feasible in Turkey. A new strategy which includes a monitoring approach will be developed in 2009.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Ceyhan Sediment Quality Survey	Operations
Ref: 2006 Annual (p9-10); 2007 Annual (p11)	

The annual Ceyhan sediment quality survey was conducted in July 2008. As per the previous surveys 12 sediment samples were taken and analysed for Total Petroleum Hydrocarbons (TPH), trace metals, benthic populations and other chemical and physical properties. Key results are as follows:

- Concentrations for mercury (Hg), cadmium (Cd), lead (Pb), copper (Cu) and zinc (Zn) in all of the sediment samples were below the established international and national guideline values and other literature values. While Hg, aluminium (Al), Cd, Zn, tin (Sn) and iron (Fe) concentrations decreased compared with 2007 values, lead and chromium (Cr) concentrations increased at some stations in 2008. The concentrations of metals decreased in 2008, when compared with 2004 results. Tin and iron concentrations at all stations, and copper and chromium concentrations at some stations were above the international guideline values. The main pollution sources of tin in marine environment are antifouling materials. The BTC Project does not use anti-fouling paints on the jetty; however ships accessing the port no doubt use these materials on their hulls. Other sources of tin may be the agricultural activities in the Cukurova plain and Iskenderun area. Measured tin concentrations have been decreasing since 2004. Higher iron concentrations were measured at relatively outer parts of the Gulf towards Iskenderun metropolitan. Anthropogenic sources of iron include industrial effluents (burning of coke and coal). Existing industrial facilities may cause high level of iron concentrations. These will continue to be monitored. Despite the fact that the measured concentrations are above the accepted limits for some metals (Sn, Cr, Fe), there is an overall trend of decreasing trace metals values.
- TPH-GRO (Gasoline Range Organics) were found to be below 5 mg/kg at all stations, and while TPH-DRO (Diesel Range Organics) values increased at most of the stations compared to previous years, total TPH values at all stations were within acceptable limits for both classes.
- Physical properties of water samples were within acceptable limits.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
OWS Feasibility Survey	Operations

In addition to the waste water feasibility study finalized in 2008, it was deemed necessary to carry out a similar study/survey to ascertain the operational efficiencies of Oily Water Separators (OWSs) and clarify any design and operational changes/modifications to best ensure compliance with project legal discharge standards. For this purpose all OWSs at BTC Turkey facilities were reviewed between August-September 2008.

The survey was prompted by the fact that the OWSs need to be cleaned manually on a weekly basis (twice a week at some facilities) by BIL due to excessive oil accumulations.

The results of the survey will be included in the 2009 waste water enhancement programme.

Completion Status: COMPLETED

Study/Survey:	**Expected Timing:**
Waste Water Feasibility Survey	Operations

Ref: 2007 Annual (p12)

The waste water feasibility survey which was undertaken in 2007 was finalized early 2008. The survey was conducted by an independent consultancy and resulted in recommendations for short, medium and long term actions including improved operator performance, installation of reed beds, and replacement of Waste Water Treatment Plants (WWTPs). As a result of these recommendations and the results of the OWS Feasibility Study, a number of enhancements will take place in 2009 including WWTP, Storm Water Pond (SWP) and Primary Withholding Pond (PWHP) upgrades. The previously approved BIL enhancement items for 2008 (construction of WWTP discharge by-pass line around the SWP/installation of UV lamps and sand filters/installation of valve on PWHP discharge lines) will be included in the 2009 programme.

It was also decided to conduct an additional project-wide review of WWT systems in 2009-Q1 to determine how the Project could improve the operability of the WWT systems and to identify creative and cost efficient options to ensure full mid-term (at least 5 years) legal compliance. The results of this study will be assessed during the 2009 annual reporting period.

Previously approved enhancement items for 2009 (IPT1 WWTP installation/installation of a settling tank for the WWTP at CMT) will also be progressed in 2009.

Completion Status: ONGOING

Study/Survey:	**Expected Timing:**
Ballast Water Management Study	Operations

Ref: 2007 Annual (p10-11)

In 2007 TUBITAK MAM was commissioned by the Project to undertake a Ballast Water Risk Assessment (BWRA) study for BTC shipping activities at CMT. The EIA committed that the Project would comply with the principles of the IMO Ballast Water Convention, although it is not yet ratified. The Convention requires that ballast water be controlled either through treatment to specified standards or ballast water exchange. Ballast water treatment technology, while established is not yet widely used or available by ships and it is therefore understood that ship ballast water exchange is currently the most effective and cost-efficient means for managing ballast water. The BWRA assessed the level of risk for all source ports of ships that used CMT. The BWRA was undertaken in accordance with the IMO – GloBallast BWRA Methodology. The study used the GloBallast BWRA database developed by IMO that calculates the relative overall risk of a potentially harmful alien species introduced to İskenderun Bay. To complete the BWRA the initial stage was to determine the source ports of the ships berthing and discharging ballast water at the CMT. The results of 2007 study can be found in 2007 Annual Report.

In 2008, TUBITAK MAM updated the BWRA study. The scope of the assessment included all the ports of origin of tankers arriving at CMT during the period 06 June 2006 (arrival of the first tanker) until 08 August 2008 (the commencement date of the BWRA update study).

The results indicate that the more the port of origin resembles the marine ecology at Ceyhan, the greater the chance that alien species will be able to tolerate their new environment and maintain sufficient numbers to grow, reproduce and develop a viable population.

The BWRA will continue to be updated. In the mean time a pilot project will be initiated with Turkish Maritimes Under Secretariat.

Completion Status: ONGOING

Study/Survey: Coastal Processes Survey
Ref: 2007 Annual (p13)
The coastal processes survey commenced in December 2006 at CMT and continued with two additional surveys in 2007. The next survey is planned for December 2009, as per the ESAP requirement.
Completion Status: ONGOING

3 CHANGES

As reported in previous Annual Reports, the BTC Project uses a management system process called "Management of Change" (MOC). Proposed changes with potential associated environmental or social impacts are graded by three Classes – I, II or III, as defined in the ESAP. Class III changes are the most significant. Changes are subject to a process of review and approval by BTC, including review and approval by the Lenders for Class III changes. Class I and II changes do not require direct approval by the Lenders, but are assessed as part of the in-country monitoring process by the Lenders' Independent Environmental Consultant. The following sections summarise BTC approved changes as recorded during 2008.

3.1 AZERBAIJAN

There were six changes in Azerbaijan in 2008.

Asset	Class	Approved Internally	Description of Change
BTC / SCP Az	**II**	**Jan 2008**	**PSA2 Camp** Construction and operation of new Camp for Pump Station 2 in Azerbaijan (PSA2 Camp). This MOC covers the construction and operation of a new permanent residential camp serving for Pump Station 2 in Azerbaijan (PSA2 Camp). An Addendum to the BTC ESIA for the construction and operation of this camp was previously approved by MENR in 2007.
BTC / SCP Az	**III**	**June 2008**	**General Waste** Continuation of use of ADES Sumgayit Municipal Landfill site BP dedicated cells for disposal of non hazardous waste previously approved by IEC. This is an extension to the September 2007 MOC. As described in the 2007 report, this MOC covers the disposal of non-hazardous waste generated by BTC Operations Facilities in a BP dedicated area at the ADES Sumgayit Municipal landfill. (The ADES site is not compliant with EU standards). The operation of the BP area is subject to separate management procedures and controls.
BTC / SCP Az	**III**	**June 2008**	**Medical Waste** Extension of storage of medical waste at the Serenja Waste Management Facility previously approved by IEC This MOC has evolved from the September 2007 MOC which described how the project was ceasing to use the Baku Central Clinical Hospital incinerator for the disposal of medical waste. The key change reported in the June 2008 MOC relates to the use of the Serenja Hazardous Waste Management Facility for temporary storage of medical waste.

Asset	Class	Approved Internally	Description of Change
BTC / SCP Az	**III**	**June 2008**	**Sewage Disposal** Continuation of removal of raw sewage waste from sewage treatment plants by vacuum tanker and transportation to external municipal wastewater treatment facility previously approved by IEC This is an extension to the September 2007 MOC which presented a justification for the temporary use of the Municipal Waste Water Treatment Facility (Mingechevir and Sahil) for treatment and disposal of sewage wastes until on-site treatment facilities were operating to their required capacities. It also covers sewage sludge disposal at the Mingechevir Waste Water Treatment Facility until BP AzSPU Facility for Sewage Sludge disposal is operational and compliant with EU requirements. [Note: Following a request from MENR, during 2008-Q2 BTC began to utilise Sahil waste water treatment facility in preference to Mingechevir].
BTC / SCP Az	**II***	**June 2008**	**Amendment to ROW Landscape Monitoring Frequency** The ESAP requires that landscape monitoring be carried out bi-annually for three years from the start of Operations. This MOC facilitates a change to annual landscape monitoring after two years.
BTC / SCP Az	**I****	**Dec 2008**	**ROW Access Strategy** This MOC is an evolution of the September 2007 Interim ROW Access Strategy MOC, as described in the 2007 report. The key change is a commitment by BTC to terminate its leases of the 6m wide strip, which runs for the length of the ROW, at the end of 2008. The content of this MOC is described in full in: • ROW Access Strategy BTC Lenders Summary Paper 16 Dec 2008 • ESIA Addendum "Interim ROW Access Strategy" Rev U03 • RAP Addendum "Interim ROW Access Strategy"

* This change does not fall under any of the strict definitions in section 6.8.7 of the ESAP. However, for ease of reporting, it is treated as a Class II Change.

** Although this is a Class I MOC according to the ESAP definition it was treated as if it were a Class III change and was subject to IEC and SRAP review

3.2 GEORGIA

The following changes occurred in Georgia in 2008 and have been internally approved in 2009.

Asset	Class	Approved Internally	Description of Change
BTC / SCP Geo	**II**	**Jan-Feb 2009**	This MOC is an extension of the Purchase and Continued Operation of the Akhaltsikhe Construction Camp MOC, and recognises the new accommodation strategy that required the Akhaltsikhe camp to remain operational until 2011. At that time a new camp will be built at Area 80 and the Akhaltsikhe camp will be reinstated and handed back to landowners

Asset	Class	Approved Internally	Description of Change
BTC Geo	**II**	**Jan-Feb 2009**	Upgrading and continued use of a Kodiana access road and construction of bypass This is an evolution of the September 2007 MOC which justified the continued use of access roads in the Kodiana area. The proposed change conforms to a direct request from the Government of Georgia's (GoG), and is supported by the Ministry of Environment.

3.3 TURKEY

There were no Class I, II and III changes in Turkey during 2008.

3.4 CROSS-COUNTRY CHANGES

There were no cross-country Class I, II and III changes in 2008.

3.5 DESCRIPTION OF ANY MATERIAL AMENDMENT, SUPPLEMENT, REPLACEMENT OR MATERIAL MODIFICATION TO AN ESIA, ESAP, THE RAP, THE ESMS OR ANY OSRP

3.5.1 Azerbaijan

Development of the BTC ESMS continued and in May 2008 the system was externally audited and certified to ISO14001 standard.

No material amendments to the Az BTC ESIA or RAP were made in 2008.

The Azerbaijan Oil Spill Response Plan was updated and amended as described in Section 5.3

3.5.2 Georgia

Two new material modifications to the current BP operations were launched in 2008; execution of both is continuing in 2009.

1. BTC expansion
2. Non-hazardous Landfill construction

None of the above led to any material change of the BTC ESIA, however both led/will lead to BTC ESMS changes.

<u>BTC expansion progress</u>

Installation of DRA systems were completed at Georgia Pump Stations G1 & G2. Commissioning is expected to be completed by the end of May 2009. Engineering and procurement works for the DRA modification pack at each DRA location continues.

No formal Addenda to the BTC Georgia ESIA were submitted for this operation.

<u>Non-hazardous Landfills</u>

In October 2008, ESIAs for both the Georgia government and BP landfill sites were approved by the regulatory authority and construction permits issued. By the end of 2008, excavation of the BP landfill was approximately 50% complete. Work was then suspended as freezing conditions prevented earthworks. Construction resumed in 2009. Start up is planned for May 2009.

BP continues to work with financial institutions (EBRD, etc) to obtain co-finance for the government landfill.

The BP landfill ESIA has a material link to BTC ESIA as it is driven mainly by BTC ESIA requirements.

In anticipation of the May 2009 opening, BTC stopped using the Iagluja municipal disposal site by macerating and dewatering food waste and compacting and temporarily storing general waste until the new landfill is operational.

3.5.3 Turkey

There were no material changes to the Source Documents in Turkey other than those described in Section 3.

4 COMPLIANCE WITH ENVIRONMENTAL STANDARDS AND APPLICABLE ENVIRONMENTAL LAW

4.1 SUMMARY OF ANY NOTICES OF NON-COMPLIANCE, REMEDIAL ACTION, ANY FINES OR PENALTIES PAID AND FINAL DISPOSITION OF ANY REGULATORY PROCEEDINGS

All notices of non-compliance served by the IEC in 2008 are detailed in Appendix 3 of this report.

There was one Level I non compliance in Turkey relating to public and community relations activities. In Azerbaijan there was one Level I relating to stack emissions and one Level II relating to sewage disposal.

There were no governmental fines or penalties incurred for environmental or social non-compliances, and no material environmental claims were made against BTC during 2008.

4.2 MONITORING RESULTS

During 2008 environmental monitoring of the operation of the BTC Pipeline continued in accordance with the BTC Emissions Management Plans to ensure compliance with project standards as well as to monitor, minimise and where necessary mitigate the environmental impact of pipeline operations.

4.2.1 Azerbaijan

4.2.1.1 Ambient Air Quality

Annual ambient air quality monitoring was carried out at PSA2 seven times and covered period from November 2007 to November 2008. Sampling devices were initially deployed at four locations around PSA2 (November 2007; January and March 2008). There after (May, July, September and November 2008) monitoring was conducted at five locations. Analyses were carried out for NO_2, SO_2, and benzene.

In accordance with the ESAP, annual average concentrations need to be calculated at each monitoring point for each parameter. Although some isolated instances of elevated SO_2 were detected at four of the sample locations, the annual average for every parameter at every sample location was in full compliance.

A summary of monitoring results is provided in Appendix 2.1a

4.2.1.2 Stack Emissions

Stack emissions monitoring was carried out at all three of the PSA2 generators and at both of the IPA1 generators in May 2008. At the same time, PSA2 turbine 4 was also sampled (turbines 1, 2, and 3 were sampled in October 2007 but turbine 4 was not operating at that time). All of the stacks were sampled for NO_x, CO, NO_2, and PM10. This successfully concludes all of the stack emissions monitoring required by the ESAP within one year of full start-up.

All of the generators at PSA2 and IPA1 were found to be in full compliance with all parameters.

Emissions from PSA2 turbine 4 indicated elevated levels of NO_x (118.2 mg/Nm^3 compared with the ESAP standard of 75 mg/Nm^3) and CO (1246.7 mg/Nm^3, no ESAP standard specified). This is consistent with the results from the other three turbines in 2007. It is believed that this was due to the fact that, at the time of sampling, the turbines were operating at below their design load. Although the turbines are fitted with low emission technology, and hence emissions were well below those of conventional turbines, the full benefit of this technology is not achieved unless they are operated at high load. Further data will be gathered at the next monitoring event, scheduled for 2009, to further our understanding of this issue. It is planned to conduct this monitoring during full loading of the turbines. It should be noted that ambient air quality data were collected at PSA2 at the same time as the stack emissions monitoring, and ambient concentrations of NO_x were found to be well within the required standards described in the ESIA.

A summary of monitoring results is provided in Appendix 2.1b.

4.2.1.3 Noise

In 2008 environmental noise monitoring took place at two pre-identified receptors around PSA2, at three pre-identified receptors around IPA1, and at the closest residential receptor to every block valve station, in accordance with ESAP requirements.

All of the results at all locations indicate compliance with the standards in the ESAP, except for the night time monitoring at Block Valve AB13, carried out in October. At this location 46.3dB(A) was recorded compared with the night time standard of 45dB(A). The elevated noise level was caused by the AB13 security hut generator. No nuisance complaints had been received from neighbours, but nonetheless an acoustic enclosure was promptly fitted to the generator to mitigate this potential nuisance.

A summary of monitoring results is provided in Appendix 2.1c.

4.2.1.4 Effluent

BTC's effluent discharges in 2008 comprised treated sewage from PSA2 from July onwards, and also discharge of surface water runoff (rainwater) from the retention ponds at PSA2 and IPA1. All of these discharges are subject to regular monitoring.

Sewage from PSA2 undergoes three stages of treatment: (i) biological treatment, (ii) UV sterilisation, and (iii) final polishing in reed beds. This system was successfully commissioned during 2008 and the final treated effluent has been continuously discharged from the reed beds to a nearby drainage canal from July onwards. The discharge was sampled and analysed at a frequency greatly in excess of that required by the ESAP (7–10 times per month) in order to enable the operators to better understand the new system. Discharges to the environment were in full compliance with the ESAP standards at all times for five out of the seven parameters, namely TSS, COD, ammonia, total nitrogen, and total phosphorous.

There were two instances when the treated sewage discharge was temporarily out of compliance with regard to pH (31 July and 16–18 August). On these occasions the pH ranged from 9.15 to 9.25 compared with the standard of 6.0–9.0. No adverse environmental impact was detected in the receiving water, and, given the short duration and the marginal nature of the non-compliance, none would be expected.

There were six instances when the treated sewage discharge was temporarily out of compliance with regard to total coliforms (4 July, 14–30 July, 30 August, 10 September, 14 September, and 9 October). On these occasions the total coliform count ranged from 510–16,000 MPN/100ml, compared with the standard of

400 MPN/100ml. Although some of the non-compliant sample dates were close together, they were interspersed with compliant samples, and therefore the total duration of the non-compliant discharges was only 21 days. Analysis of samples taken from the receiving water both upstream and downstream of the BTC discharge point reveals even higher coliform concentrations in the receiving water. No adverse environmental impact was detected in the receiving water and it is extremely unlikely that any was caused.

Surface water runoff from PSA2 and IPA1 is directed to a retention pond at each site. As per the ESIA, in 2009 the retention ponds will discharge to the reed beds. However, in 2008 the retention ponds discharged directly to the environment (drainage canals at IPA1 and PSA2). Until October, every discharge from both retention ponds was sampled and analysed. After October with start of the rain season and considering the fact that all process areas were isolated from the retention pond at PSA2, visual checks for oily sheen were made in several cases. All samples were found to be in compliance with all parameters on every occasion, and no oily sheen was observed, except for one occasion, on 3–10 July, when pH was out of compliance. On this occasion the pH was 9.59 compared with the standard of 6.0–9.0. No adverse environmental impact was detected in the receiving water, and, given the short duration and the marginal nature of the non-compliance, none would be expected.

A summary of monitoring results is provided in Appendix 2.1d.

4.2.1.5 Ground and Surface Waters

In 2008 surface and groundwater monitoring was carried out in May and in November. Groundwater samples were taken from six monitoring wells at the Karayazi aquifer (only five samples were taken in November because one well was dry) and from two wells at PSA2. Surface water samples from five locations around IPA1 and PSA2 were taken in May and in November.

All the results indicate no significant deterioration from pre-project baseline conditions.

A summary of monitoring results is provided in Appendix 2.1e.

4.2.1.6 Waste Management

During 2008 waste management practices on site were maintained and improvements undertaken to increase awareness of site personnel on waste minimisation and segregation issues. The new fully engineered waste storage and handling area at PSA2 was fully utilised throughout 2008. All wastes were handled and disposed of in accordance with BP AzSPU waste management requirements.

In mid December 2008, the non hazardous waste landfill which was constructed to meet EU standards (Landfill Directive 1999/31/EC) on behalf of BP was commissioned. The facility, situated at the national hazardous waste site in Sumgayit, is owned and operated by a third party. It now operates routinely to take all BTC non hazardous solid wastes via the Sangachal Terminal Central Waste Accumulation Area (CWAA) which are not reused or recycled.

A summary of waste generated is provided in Appendix 2.1f.

4.2.2 Georgia

4.2.2.1 Ambient Air Quality

There were six rounds of monitoring conducted (January, March, June, August, October, and December). Measurements were taken at five locations around each of the following stations – PSG1, PSG2, and Area 80. The first round of the 2008 ambient air quality monitoring was unsuccessful due to vendor performance. A new vendor was commissioned and they completed the remaining monitoring tasks for 2008. All results demonstrated compliance with the relevant standards.

A summary of monitoring results for Ambient Air Quality is provided in Appendix 2.2a.

4.2.2.2 Stack Emissions

A pilot monitoring survey was conducted on the BTC generators following modifications to the sample ports. These modifications were required to make them suitable for stack emissions monitoring.

All the parameters were measured except for PM, which was calculated using a mass balance technique.

The monitoring results demonstrated compliance with the relevant standards for most of the parameters with the exception of the CO at three out of six generators. The elevated CO levels at the generators demonstrated incomplete combustion. A number of modifications were made based on the monitoring results. A repeat survey was then conducted during the annual Stack Emission Monitoring in November 2008. These results indicated full compliance against ESAP standards.

Annual monitoring was conducted on all the equipment with the exception of the PSG 1 Water Bath Heater which was down for maintenance.

The monitoring results demonstrated the general compliance with the relevant standards with the following exceptions: NOx for all MoL Turbines. The results for the generators demonstrated full compliance with the Operations standards.

A full set of results are given in Appendix 2.2b.

4.2.2.3 Noise

Environmental noise monitoring was carried out at three monitoring locations around each PSG on a quarterly basis. Day time monitoring was also undertaken at Oil Spill Response Base OSRB of Tsalka and Borjomi on a monthly basis. In addition one off night time readings were taken at all OSRBs in Tsalka, Borjomi and Rustavi. All monitoring rounds results demonstrated compliance with the operations standards.

A summary of monitoring results for environmental noise are provided in the Appendix 2.2c.

4.2.2.4 Effluent

Treated waste water samples were taken from the reed beds at PSG 1 and PSG 2 prior to discharge and analyzed in approved ISO certified laboratories. The retention ponds at PSG 1 and PSG 2 were also sampled.

The results indicate that the relevant standards were exceeded in the following instances:

- PSG 1 – three out of twelve cases of COD, two out of twelve TSS, one out of twelve coliform bacteria, one out of four BOD
- PSG 1 camp – one out of twelve coliform bacteria
- PSG 2 – one out of twelve coliform bacteria
- PSG 2 camp – three out of twelve coliform bacteria

All the above exceedances were investigated and corrective actions applied, where possible.

Two rounds of monitoring were conducted at the Borjomi OSRB. The results demonstrated that coliform bacteria parameters were not in compliance. A subsequent investigation identified a major problem within the sewage treatment plant, requiring its closure. Sewage from the OSRB is now being sent to Akhaltsikhe camp for treatment and disposal. Sewage from the Tsalka base is being sent to PSG 2 camp for treatment until the upgrade of the Tsalka base STP is completed.

General upgrade of the site retention ponds as well as the sewage treatment system at sites and camps is budgeted for the period 2009-2011.

A summary of effluent discharge monitoring results is provided in Appendix 2.2d.

4.2.2.5 Ground and Surface Waters

Two rounds of groundwater and surface water monitoring were conducted in 2008. The results of the first round showed that the baseline recommended trigger levels for toluene and naphthalene were exceeded at three locations: Tsalka monitoring well No8 (for toluene) and Tsalka surface water locations No20 and No21 (for naphthalene). Each location was re-sampled and found to be compliant.

A summary of groundwater and surface water monitoring results is provided in Appendix 2.2e.

4.2.2.6 Waste

A summary of waste generated in 2008 is given in Appendix 2.2f. The main waste generation areas are at PSG1 and PSG2. The CWAA continues to be utilised by Operations for the management of materials that cannot be recycled or disposed of to appropriate standards. The plan is to export printer cartridges for reprocessing outside of Georgia.

In 2008 BP Georgia commenced using local PET manufacturer *Caucasus PET Company* for recycling of plastic waste. More than 100 tonnes of plastic, accumulated at the CWAA, has since been delivered for recycling.

In 2008 BTC's contractor for waste export, UK Company *Veolia,* shipped about 700 tonnes of hazardous waste to Germany and the Netherlands for further treatment and disposal.

Also in 2008 the following waste plans were approved: Waste Management Plan (WMP); Waste Management Implementation Plan (WMIP); Waste Offset Plan (WOP) and; Waste Projects Plan (WPP). These plans outline particular actions to improve waste management, to develop a new non-hazardous landfill, to close the level 3 non-compliance for using by BTC Iagluja waste disposal site, and to set offset mechanisms for compensation of non-compliant waste disposal.

Moreover, in October 2007 BP Georgia acquired a 10 ha land parcel near Rustavi for the development of EU compliant non-hazardous landfill. A portion of this land (2.7 ha) is designated for a BP landfill. The remaining portion (7.3 ha) is being developed as a municipal landfill as part of the offset program.

In another initiative, BP has installed food waste macerators and dewaterers at PSG1 Camp, PSG2 Camp and Akhaltsikhe Camp. After maceration and dewatering food waste is being reduced in volume by 70-80%;

Macerated and dewatered food waste is then sent to the Waste Recycling Area for composting. Composted food waste will be used for various purposes for example, conditioning the ROW to encourage re-growth and as material for a final cover for the landfill. Some will be donation to local farmers.

General waste (minus the food component) is currently being stored at the Waste Temporary Storage Area. This waste will be disposed of at the new BP landfill when it is completed.

4.2.3 Turkey

4.2.3.1 Ambient Air Quality

Ambient air quality monitoring is undertaken only at the Ceyhan Marine Terminal (CMT). The results are presented in Appendix 2.3. No ambient air monitoring is required at the Pump Stations (PTs) as the major sources of emissions (pump drivers and water heaters) use natural gas as a fuel; the effects on ambient air quality are consequently minor.

Passive diffuser tubes were used to monitor air quality. VOCs (benzene, toluene, ethyl benzene and xylene–BTEX), SO_2 and NO_x are measured at 10 locations at and around CMT once in every three months.

In 2008, 4 surveys were undertaken between January and December. The January 2008 survey was actually started in December 2007; the results are included in this annual report. The same approach will be adopted for the January 2009 sampling period.

A summary of the average results from the four rounds of monitoring in 2008 is as follows:

- The annual average SO_2 and NO_2 values measured in 2008 are within both the Project Standard and the limit value set forth in the Turkish Regulation. These results are generally lower than or close to the annual average values recorded during the ambient air quality baseline study and the annual average values recorded in 2007, except the average values at CMT8. The annual average value of SO_2 in CMT8 was high due to the contribution of the quarterly average value in Spring 2008 and the annual average value of NO_2 in CMT8 is high due to the contribution of the quarterly average values in Summer and Autumn 2008.
- Annual average values of benzene measured in 2008 comply with the Project Standard and the limit value set forth in the Turkish Regulations.
- Annual average values of BTEX measured in 2008 are higher than the annual average values of 2007 monitoring campaign and the associated baseline values. High annual average BTEX values are due to the contribution of the quarterly average value in Autumn 2008. The reason behind the high Autumn value is not thought to be related to vessel loading activities since the number of shipping movements in this period was lower than normal. Emissions from other petrochemical facilities in the area therefore offer the most likely explanation. Notwithstanding this Autumn reading, annual average values of BTEX are in compliance with the limit value set forth by the Turkish Regulation.

4.2.3.2 Stack Emissions

The flue gases originating from the gas fired reciprocating engines, water heaters, diesel fired generators, LPG fired heaters, etc. from point sources are being monitored by DOKAY in accordance with ESAP EEMP.

Stack emissions monitoring results for 2008 are shown in Appendix 2.3b. The results demonstrate compliance at all PTs, CMT and IPT1. Only the emergency generator at IPT2 was found to be non-compliant (during May and August 2008). The non-compliant results are being addressed through improved maintenance.

4.2.3.3 Noise

The project standard for noise specifies a maximum of 45 dBA for night time ambient noise levels at sensitive receptors or a 3dBA increase above background levels. Noise modelling was undertaken as part of the EIA process (Volume II, Section 7.9.4) and indicated that 40dBA is reached a maximum of 50m from the perimeter fence at each pump station. The closest residential receptor to any of the facilities is 1.5 km. Monitoring at off-site residential receptors is therefore not considered necessary unless in response to concerns raised by residents or if there is evidence that on-site noise is rising. Neither of these situations arose during 2008, consequently, no monitoring was conducted.

4.2.3.4 Aqueous Discharges

Aqueous discharges originating from project facilities, as well as downstream surface water bodies which receive the aqueous discharges, are monitored on a monthly basis. Upstream water bodies are similarly monitored to establish ‘control’ conditions. Aqueous discharge monitoring results for 2008 are shown in Appendix 2.3c.

Generally, the monitoring results indicate that aqueous discharges were non-compliant in 2008. Monthly effluent monitoring results show that there were 24 non-compliant samples among 104 samples taken from the Oily Water Separators (OWSs); 44 non-compliant samples of WWTP effluent among 72 samples and 53 non-compliant samples of Storm Water Pond (SWP) effluent among 59 samples. No non-compliant discharges were released to environment; rather, they were re-cycled or trucked to a Project-approved Municipal WWTP's.

A waste water feasibility survey was finalized early 2008. An additional study was undertaken to investigate the efficiency of all OWSs. Recommendations from both studies have been reviewed by the project and form part of the 2009 enhancement programme. The details of these studies are provided in "Other Studies Section".

4.2.3.5 Groundwater

The full groundwater and surface water monitoring programme for operations is being developed and will commence in 2009.

4.2.3.6 Waste Management

In 2008 1,692 tonnes of solid waste was disposed off-site. Of this, 2% was hazardous waste that was sent to Izaydas for landfill or incineration, 10% was domestic waste sent to Izaydas for landfill and the rest, 87%, was non-hazardous waste that was re-used or re-cycled. In addition, in 2008, 853 tonnes of oily liquid waste was re-injected into pipeline. The main source of this waste was the fire incident that occurred at BVT30. The details of the incident are provided in "Oil Spill Response Section".

Appendix 2.3d provides details of waste volumes generated.

As the Operations phase CWAAs are very small, the CWAAs established at the camp sites during the construction phase are being used at the PTs and IPT1.

In May 2008, a new permanent CWAA was established at CMT. This facility has some outstanding items that require attention before it can be used. These are expected to be completed in 2009.

In addition a number of improvements to the waste collection systems at PTs and IPT1 are planned for 2009-2010, and a Best Practicable Option Study for waste management will be conducted by BIL and BTC. in 2008.

4.3 STATEMENT OF COMPLIANCE

BTC and its agents have complied with the ESAP, applicable Environmental Laws and Applicable Lender Environmental and Social Policies and Guidelines in all material respects during the period covered by this report.

All non-compliances with emissions that have been identified in 2008 are summarized in Section 4 and shown in Appendix 2. Non-compliances relating the other audits are given in Section 11 (and detailed in Appendices 3 and 4). For all non-compliances identified, corrective actions have been developed and implemented.

4.4 CHANGES IN APPLICABLE ENVIRONMENTAL LAW

4.4.1 EU Legislation

New and amended EU directives, regulations, and decisions announced in 2008 have been reviewed. Potential implications arising from the review are being taken into account as part of the HSSE Compliance Programme. The following Directive and regulations are relevant and will be complied with to the extent reasonably practicable (unless otherwise stated):

1. Directive 2008/103/EC relating to the management of waste batteries and accumulators. The placing on the market of batteries and accumulators (whether or not incorporated into appliances) that contain by weight more than 0.0005% and 0.002% of mercury or cadmium respectively after 26 September 2008 is prohibited. Landfilling or incineration of waste industrial and automotive batteries and accumulators is also prohibited (examples include those batteries and accumulators used in various types of measurement and instrumentation equipment and electric vehicles. In an Annex to the Directive there is a requirement for treatment which should, as a minimum, include the removal of all fluids and acids.

2. Regulation 1102/2008 relating to metallic mercury and mercury compounds. This EU Regulation bans the export of metallic mercury and certain mercury compounds and mixtures from the EU from 15 March 2011 (unless for research and development, medical or analysis purposes). It also holds that from 15 March 2011, metallic mercury should be considered as waste to be disposed of in accordance with the EU Waste Framework Directive 2006/12/EC, subject to the derogation in Article 4, which allows for its safe storage. This EU Regulation comes into force on 4 December 2008 (Article 10) and is directly applicable in all Member States.

3. Regulation 2008/105/EC on environmental quality standards in the field of water policy. This EU Directive sets out limits for concentrations in surface water (Environmental Quality Standards, EQS) for certain polluting substance, such as pesticides, heavy metals and biocides. The thresholds relate both to pollution peaks as well as to annual average figures. These limits are not directly imposed on industry because they are ambient limits rather than discharge limits.

4.4.2 Azerbaijani Law

The following environmental related legislative changes occurred in 2008 that were potentially applicable to BTC:

1. Presidential Decree, July, 2008 N796. This decree establishes “Norms of vibration and noise pollution affecting the environment and human health”. The decree defines acceptable noise and vibration levels across a range of building types.

2. Presidential Decree, August, 2008 N812. This decree establishes the Cabinet of Ministers and MES as being responsible for creating special commissions charged with determining measures to prevent and mitigate environmental impacts on water bodies in accordance with Article 92 of The Water Code of The Azerbaijan Republic (December, 1997, N418-IG). Publicly available information regarding these commissions will be reviewed as and when available.

4.4.3 Georgian Law

There were no significant changes in Environmental and Social legislation affecting Georgian operations in 2008.

4.4.4 Turkish Law

The list of national environmental regulations that were published or re-issued in 2008 is shown below, along with a statement regarding likely applicability:

Official Gazette No	Official Gazette Date	Regulation On:	New / Revision	Impact on BTC Turkey Operations?
26809	07.03.2008	Environmental Noise Assessment and Management	New	No impact.

Official Gazette No	Official Gazette Date	Regulation On:	New / Revision	Impact on BTC Turkey Operations?
26898	06.06.2008	Air Quality Assessment and Management	New	The Regulation was fully aligned with the Directive 2008/50/EC of 21 May 2008 on Ambient Air Quality and Cleaner Air for Europe. No impact to BTC Operations as the Project standards in the Environmental Emissions Management Plan (EEMP) already takes the most stringent emission limit in EU, IFC and national standards.
26988	05.09.2008	Competence for Environmental Measurement and Analysis Laboratories	New	The requirements will be in place during BIL audits of new laboratories to be used by the Project.
25699	13.01.2005	Control of Air Pollution resulting from Heating	Revision	No impact. The water heaters at facilities construction camps need to be permitted as per the Regulation.
27051	11.11.2008	Landscaping Plans	New	No impact.
26952	30.07.2008	Waste Oil Control	New	No impact. Waste Management Plan (WMP) is already compliant with the Regulation.
27035	25.10.2008	Increasing Efficiency for Energy Sources and Energy Use	New	No impact.
26939	17.07.2008	Environmental Impact Assessment	Revision	No impact. The requirements will be in place in case new projects will take place.
27052	12.11.2008	Decrement of Ozone Layer Depleting Materials	New	No impact.
25687	31.12.2004	Water Pollution Control	Revision	No impact. EEMP is already compliant with the Regulation.
26562	24.06.2007	Control of Packaging Waste	Revision	No impact. Waste Management Plan is already compliant with the Regulation.
27061	21.11.2008	Environmental Inspection	New	No impact.
27092 (repeating)	26.12.2008	Restrictions on Production, Market Supply and Utilization of Some Hazardous Substances, Concoctions and Goods	New	No impact.

Official Gazette No	Official Gazette Date	Regulation On:	New / Revision	Impact on BTC Turkey Operations?
26891	30.05.2008	Restriction on Use of Some Hazardous Substances for Electrical and Electronic Goods	New	No impact.
27092 (repeating)	26.12.2008	Preparation and Distribution of Safety Data Forms regarding Hazardous Substances and Concoctions	New	No impact.
27092 (repeating)	26.12.2008	Classification, Packaging and Labeling of Hazardous Substances and Concoctions	New	No impact.

5 OIL SPILL RESPONSE

5.1 SUMMARY OF OSRPs COMPLETED, UPDATED, OR AMMENDED DURING THE YEAR

The OSRP for Georgia was amended and updated in November 2008 and the OSRP for Azerbaijan was amended and updated in December 2008; as summarised in Section 5.3.

5.2 SPILL AND REMEDIATION SUMMARIES

BTC reports any material release that reaches the environment (i.e. is uncontained) or that is greater than 1 barrel, even though it maybe contained. Gas releases are always classified as uncontained. All material releases (liquids, gases or solids) are internally reported and investigated. There is no minimum reportable volume for internal release reporting and investigation. A summary of these releases is given in Table 5.1.

Table 5.1: BTC Material Releases in 2008

Asset	Liquid			Gas
	< 1 bbl	> 1 bbl		
	Uncontained	Contained	Uncontained	
BTC Azerbaijan	0	0	0	0
BTC Georgia	2	0	0	2
BTC Turkey	5	3	1	0

Further details on the material release shown in Table 6.1 are given in the following sections:

5.2.1 Azerbaijan

There were no material releases (spills) which reached the environment from BTC Azerbaijan facilities during 2008.

There were three minor spills recorded during the year. All of them were contained and therefore not discussed further in this report. None impacted the environment.

5.2.2 Georgia

A summary of material releases for Georgia during 2008 are as follows:

Fuel spill near Kumiska river (Georgia projects – March 2008)

Approximately 8–10 litres of diesel were spilled on the ground during generator refuelling. Spill was localized; contaminated soil excavated and affected area cleaned up completely.

Hydraulic oil leak from crane hose (Georgia projects – July 2008)

Approximately 15 litres of hydraulic oil was spilled on ground from damaged crane hose. OSR contractor cleaned up the spill material and all contaminated soil

Pilot regulator failure (Area 80 – June 2008)

Approximately 1 litre of CH_4 gas was released to atmosphere due to fuel gas stream pilot regulator failure

Gas leakage from the gas fuel off take skid (Area 75 – April 2008)

Estimated 5664 Litre of CH_4 gas was released to atmosphere from on line pressure regulator

5.2.3 Turkey

5.2.3.1 Contained

The following spills were greater than 1bbl, but were fully contained:

Estimated 22 bbls lube oil (PT4 – February 2008)

Lube oil spilled as result of punctured hose inside the pump house. The spill was contained inside the building and cleaned up.

Estimated 3 bbls crude oil (PT1 – September 2008)

Crude oil spilled inside the pump house. The spill was contained inside the building and cleaned up.

Estimated 32.7 bbls crude oil (PT4 – September 2008)

Crude oil spilled from 1" flange on the downstream of 8" Discharge Relief Skid by-pass line. Leakage point was isolated by closing relief tanks inlet valves. Relief tanks main header level was dropped down. Spill cleaned up.

In all cases all of the oil was recovered and re-injected back into the pipeline.

5.2.3.2 Uncontained (released to the environment)

All uncontained material releases in 2008 are reported below:

Estimated 0.1 bbls oil (PT2 – March 2008)

Oil spilled in the Operations site from the OWS due to flooding event. The spill was responded by using spill kits such as absorbent booms. Contaminated soil and gravel was removed to CWAA.

Estimated 0.01 bbls diesel oil (PT2 – March 2008)

Diesel oil spilled in the camp site to the ground due to a leak at the diesel supply line of the generator's tank. The spill was responded by using spill kits. Contaminated soil and gravel was removed to CWAA.

Estimated 0.1 bbls diesel oil (PT3 – April 2008)

Diesel oil spilled in the camp site to the ground. The spill was responded by using spill kits. Contaminated soil and gravel was removed to CWAA.

Estimated 0.01 bbls crude oil (BVT10 – May 2008)

Crude oil spilled to the ground from block valve cavity drain valve coupling due to passing of valve seats during stroke tests. The spill was cleaned up with absorbents; contaminated gravel was cleaned up and removed to nearest CWAA.

Estimated 31,446.50 bbls crude oil (BVT30 – August 2008)

Crude oil was released at BVT30 due to an explosion on the night of August 6th. A large fire resulted. The fire burned for approximately 107 hours and was extinguished through application of fire foam on the 11th of August. The initial response and clean-up were terminated as of 31st of August.

It is estimated that ca. 5,000 m^3 of crude oil burned during the fire and 940 m^3 spilled from the pipe during the incident.

The estimated figures with regard to recovery are as follows:

- Recovered on site and carried to PTs to be re-injected into the p/l; 863 m^3 (ca. 90 m^3 water dewatered)
- Recovered on site and carried to Ceyhan Botaş treatment system; 92 m^3 (ca. 75 m^3 water dewatered)
- Recovered at the containment site re-injected into the pipeline; 20 m^3
- Cleaned with absorbents; 10 m^3
- Spilled to land resulting contamination of soil; 120 m^3

Estimated 0.6 bbls crude oil (ROW – November 2008)

A crude oil spill resulted from an illegal tap at KP 1,048+166 (BTC-HT-T23). 135.8 bbls were recovered and sent to CMT to be re-injected into the pipeline. Approximately 28,000 kg (10.5 m^3) of contaminated soil was removed from the site and transferred to the temporary contaminated soil storage area at CMT. The site was reinstated.

Details on remediation are given in Section 5.2.3.4.

5.2.3.3 Illegal Taps

In November 2008, an illegal tap was discovered along the BTC pipeline in Turkey (BTC-HT-T23) by the Jandarma. The tap was uncontained at the time it was discovered. The site was reinstated the same month.

Upon discovery of an illegal tap the BIL Environmental and Social departments prepare E&S risk assessment reports which are provided to the On-site Commander, the repair contractor and SESMeke teams prior to the repair activities commencing. These assessments provide essential E&S info and clearly identifies mitigation measures to be implemented both as part of the repair and in case of a spill during repair activities.

5.2.3.4 Remediation

A bioremediation programme was developed by BIL for the contaminated soils originating from illegal taps and stored at CMT. The programme commenced in 2008.

About 1500 m^3 of contaminated soil was generated as a result of the fire at BVT30. The contaminated soil was temporarily stored in a lined and bunded area at the BVT30 site. A detailed site survey will be carried in 2009 in order to identify the needs and options for contaminated soil and site remediation.

5.3 SUMMARY OF MATERIAL MODIFICATIONS TO THE OSRPS

The OSRPs for Georgia and Azerbaijan were amended and updated in the final months of 2008. Section 1 of the OSRP for Georgia was amended to include a section on Drag Reducing Agent (DRA) and the implication of this for a response. In addition scenarios involving a spill of DRA, clean-up and remediation were either added or expanded. Sub-sections 1.12 Public Relations and 1.13 Documentation were expanded. Sub-sections 1.7 and 2.2 were amended to reflect the changes in the updated Incident Management System manual (IMS). Equipment list and contact details were updated. In the Georgian OSRP only, Sub-section 1.7.5 was added to include information on the role of the Georgia Country Support Team.

The OSRP for Azerbaijan included the same changes as for Georgia (except for 1.7.5), however, some of the text in Sections 1 and 2 was amended (after consultation with the end-users) to ensure clarity of meaning. Environmental Adviser and Environmental Field Adviser action checklists were also added to Section 2 and the notification table in this section was updated. The Azerbaijan OSRP was merged with the WREP OSRP to become one OSRP covering both the WREP and BTC pipelines and was renamed the Azerbaijan Export Pipeline Oil Spill Response Plan. The plan was also amended to reflect the forthcoming changes in the OSR contract.

The appendices to both the Georgian and Azeri OSRPs were radically overhauled. Most of the appendices had been written as stand-alone documents and therefore, there was considerable duplication of text throughout many of the appendices; this duplication was removed.

6 ADDITIONALITY PROGRAMMING

Implementation of the BTC Additionality programmes is carried out through a series of regional and community-based projects, designed to conserve biodiversity, to deliver local and long term benefits, and to empower local communities to resolve issues for themselves. The Additionality Programmes were formalised into an Environmental Investment Programme (EIP) and a Community Investment Programme (CIP). CIP and EIP are jointly and equally funded by BTC and SCP in Azerbaijan and Georgia. In Turkey these programmes are 100% funded by BTC.

6.1 SUMMARY OF EIP

6.1.1 Azerbaijan

6.1.1.1 Green Pack

This project, which began in 2005, was successfully completed in 2008 with the distribution of the Green Pack, a multimedia, interactive educational tool that aims at enhancing environmental knowledge of school teachers and 1–11 grade pupils. The pack contains a teacher's handbook, a textbook for children, a DVD film collection, a CD-ROM and a dilemma game.

In 2007–2008, 1,251 teachers of 890 secondary schools from 62 districts of Azerbaijan, 81 tutors of the Ministry of Education and 180 teachers from institutions of higher education took part in training during 'Green Pack Week'. In addition to 57 methodological centers, 890 secondary schools and 8 schools of higher education have bought the 'Green Pack' tool.

6.1.1.2 Tugay forest

The BP flagship Tugay Forest Rehabilitation Project was completed in 2008. This involved the rehabilitation and protection of 150 Ha of forests in the Kura lowland and around the Kura River in Western Azerbaijan.

The Tugay project was guided by a steering group consisting of BP, BTC and MENR representatives with the support of local organisations, experts and communities.

6.1.2 EIP in Georgia

6.1.2.1 Construction Phase EIP Projects

Two construction phase EIP projects were completed in 2008 whilst a third will continue through 2009/10. Highlights are as follows:

Caucasian Black Grouse Conservation in Georgia (Phase 2). The Action Plan developed in Phase 1 of this project was successfully completed by the Georgian Centre for the Conservation of Wildlife.

A report has been written which outlines the benefits, outcomes and outputs of the project, including the development of three biodiversity monitoring indicators: 1) National Red List index; 2) Common Birds index; and 3) Public Awareness indicator. These have been communicated to external stakeholders on the national level.

Small Grants Programme for NGO Capacity Building (Phase 2). This programme was managed by Save the Children in partnership with NACRES. Its goal was to increase the capacities of local NGOs in districts crossed by BTC and SCP to develop and implement small projects that have a tangible positive environmental impact.

Thirty two Environmental Activity Grants were awarded to local NGOs operating in six targeted districts of Kvemo Kartli and Samtskhe-Javakheti. All grantees promoted community participation in solving essential environmental issues.

The project was completed in December 2008.

Development of a Management Plan for Ktsia-Tabatskuri Managed Reserve. This project, which is implemented by The World Conservation Union (IUCN), is jointly funded by both EIP funds and separate offset funds[4]. It has two main goals:

1) To develop a management plan for Ktsia-Tabatskuri Managed Reserve that is endorsed by all stakeholders, and

2) To enhance the capacity at site and national levels to implement this plan.

The management plan will be the first of its kind for a protected area in Georgia and requires extensive stakeholder communication and involvement. Its development and implementation involves the collection of valuable background information about the reserve and provides experience that can be used in other protected areas of Georgia.

No further programmes are being developed for 2009.

6.1.2.2 Operations Phase EIP (Eco-Awards Program)

This program is funded by BP on behalf of BTC and SCP. It rewards individuals and organizations involved in promoting awareness of the environment and its protection. The budget allocated for the program is $ 900,000 for three years 2008-2010, with the first transfer of $ 300,000 being made in December 2008.

6.1.3 EIP in Turkey

This programme is now mature, with all ten of the construction phase (EIP 1) projects and four out of eight operations phase (EIP 2) complete as of end of 2008.

Table 6.1: EIP Turkey: Summary of Activities

	Project	Phase	Started	Completed	BTC Funds Spent US$
1	Sea Turtle Expedition	Construction (EIP 1)	01.08.2003	31.12.2005	175,000
2	Research on Monk Seals	Construction (EIP 1)	01.08.2003	31.12.2004	100,000
3	Improving the Conservation and Status of Caucasian Black Grouse in Turkey	Construction (EIP 1)	01.08.2003	31.12.2005	230,000
4	Important Bird Areas in the BTC Pipeline Region	Construction (EIP 1)	01.08.2003	31.12.2005	215,000

[4] In addition to the Georgia EIP budget of US$3 million, an additional US$1.3 million was designated for Offset Programmes. To take advantage of synergies with EIP, offset money spent on Ktsia-Tabatskuri Managed Reserve is managed under the EIP.

	Project	Phase	Started	Completed	BTC Funds Spent US$
5	Important Plant Areas in the BTC	Construction (EIP 1)	01.08.2003	31.12.2005	260,000
6	Lesser Caucuses Forests Gap Analysis	Construction (EIP 1)	01.02.2004	31.04.2006	305,000
7	Small Investments Fund – Phase 1	Construction (EIP 1)	01.09.2004	30.04.2007	250,000
8	Awareness Raising Materials on Biodiversity Along the BTC Pipeline	Construction (EIP 1)	01.11.2004	30.10.2008	200,000
9	Yumurtalik Lagoons Wetland Management Plan and Erzurum Marshes Conservation Zones	Construction (EIP 1)	01.11.2004	31.12.2007	545,000
10	Participatory Eco-System-Based Planning and Management of Ardahan-Yalnizcam Forests	Construction (EIP 1)	01.06.2005	30.05.2008	1,110,000
11	Eksisu Wetlands Management Project - Phase 1	Operations (EIP 2)	01.12.2006	31.12.2008	350,000
12	Biogas/Fertilizer Demonstration in Kahraman Maras - Phase 1	Operations (EIP 2)	01.12.2006	31.12.2008	50,000
13	Conservation Priority Analysis for Central and South BTC Region – Phase 1	Operations (EIP 2)	01.12.2006	31.12.2008	930,000
14	Grand Kackar Project	Operations (EIP 2)	01.12.2006	On-going	32,000
15	Marine Wildlife Rehabilitation Capacity Building	Operations (EIP 2)	01.06.2007	On-going	15,000
16	Small Investments Fund – Phase 2	Operations (EIP 2)	01.05.2007	On-going	400,000
17	Yumurtalık Wetlands Management – Implementation Phase 1	Operations (EIP 2)	01.12.2007	31.12.2008	160,000
18	Conservation of Commercially Important Endangered Endemic Plants in Ardahan and Kahraman Maras	Operations (EIP 2)	01.12.2007	On-going	145,000
	TOTAL				**5,472,000**

In addition to these project activities, the EIP launched a programme to increase the project management and implementation capacity of implementing partners. This NGO Capacity Development Programme involved annual monitoring of project activities to assess the risks the projects were facing and to provide coaching to manage those risks and ensure success. Capacity development training will continue in 2009 based on a needs assessment. Other significant milestones achieved in 2008 include the signing of a protocol in March between BTC, DKM (Nature Conservation Centre) and MoEF's (Ministry of Environment and Forestry) General Directorate of Forestry. This prioritises conservation-based forestry management planning and starts the transfer of all EIP generated data into "Noah's Ark"; the first national biodiversity database of Turkey.

6.1.3.1 Project Status as at End 2008

A summary of key EIP developments in 2008 are as follows:

- **Conservation of Endangered Plants along the BTC Pipeline Region (Phase I):** Five endemic species collected from Kahraman Maraş were successfully propagated in Ardahan. This project will continue in 2009 when it is proposed to integrate it into the Posof Wildlife Conservation Area Management Plan.
- **Eastern Mediterranean Marine Wildlife Rehabilitation Centre:** Alternatives for the location of the centre were assessed and meetings held with METU (Middle East Technical University) and Mersin University (MU). MU demonstrated a strong intention to own and operate the centre whilst the MoEF committed to providing staff and logistical support. A protocol is to be signed among BTC, MoEF, EKAD and MU to clarify the roles and responsibilities of each institution involved. The project, which has been extended by one year, will then begin.
- **Small Investments Fund (SIF-II):** The grant projects were completed but the umbrella project has been extended until April, 2009 to allow final monitoring and evaluation of the impacts of the small grants. Two grant projects were discontinued due to administration issues faced by the grantees. The project portfolio includes:
  1. Development of Ecotourism in Kuyucuk Lake, in Akyaka-Kars;
  2. Production of Biogas and Biomass from Systematically Collected Cattle Manure, in Hemite-Osmaniye;
  3. Decreasing the Threats on the Fish Populations in the Rivers of Amanos Mountains, in Dortyol-Hatay;
  4. Development of Ecotourism in Yogunoluk Village, in Samandag-Hatay: (discontinued);
  5. Sustainable and Effective Usage of Resources in the Production of Local Zerun, Kirik and Sigon Organic Wheat, in Pasinler-Erzurum;
  6. Using Wind Energy for Drinking Water of Kirmitli Municipality, in Kirmitli-Osmaniye: (discontinued);
  7. Technical feasibility of use of Modern Fish Barriers in the Yelkoma Lagoons, in Yumurtalik-Adana;
  8. Bogatepe Village Sustainability and Life with Plants, in Bogatepe-Kars;
  9. Promoting the Yumurtalik Lagoons for Conservation, in Yumurtalik-Adana: To develop alternative income-generating activities and to establish necessary infrastructure for visitor management.

  The Natural Wastewater Treatment in Karaurgan Village (Kars Province) was completed in cooperation with the Kars CIP project. A sewer network was established but the long land acquisition process did not allow time within the project life for construction of a wetland. A septic tank, funded through Kars Special Provincial Administrations 2009 investment plan, will be installed instead. When legal problems are overcome the system could be integrated into the constructed wetland.

- **Eksisu Marshes; for Nature and People (Phase I):** A Local Wetland Committee in Eksisu was established in May 2008. A bird watching tower was completed and information boards were placed around the area. Three thousand *Sonchus erzincanicus* were replanted in their natural habitat and a monitoring system developed and implemented. The area was given national wetland conservation status making hunting illegal and forbidding artificial changes in the water regime. In addition, over two hundred and seventy people were trained in environmentally friendly agriculture and stockbreeding and approximately two hundred local students received "nature bag" education. Phase II of the project will concentrate on sustainability and a smooth exit from site.
- **Conservation Investment Priority Analysis for the Central and Southern BTC Region:** A cooperation protocol between BTC, MoEF's General Directorate of Forestry (OGM) and DKM was signed in March 2008. This integrated conservation prioritisation initiatives of the project with those of the Ministry. OGM will establish a Chief Engineer of Biodiversity to coordinate all biodiversity studies and to conduct forest biodiversity inventories. OGM will also establish Forest Ecosystems Monitoring Office.
- **Implementation of the Yumurtalik Lagoons Management Plan (Phase II):** The Yumurtalik Lagoons Management Plan was approved by the National Wetlands Commission in March, 2008. A plan coordinator has been appointed by the Provincial Directorate of Environment and Forestry and an organization team and implementation committee established. This has strengthened the capacity of local institutions and technical personnel to participate in the plan. Local farmers have received training on environmentally friendly agricultural activities and monitoring mechanisms were established to conserve and rehabilitate the biodiversity of the site. The conservation status of the site changed from nature conservation area to the less strict status of national park. This change means that local villagers will be less constrained in land usage and can carry out agricultural activities in areas allocated through the wetland management plan. Phase III will concentrate on sustainability and will implement further actions from the management plan.
- **Kaçkar Mountains Forest Conservation and Sustainable Rural Development Project:** The project is a continuation of the Lesser Caucasus Forest Gap Analysis and aims to demonstrate ecologically sound community development. The project received a matching fund of $1,800,000 from the EU in late 2006. In 2008 stakeholder analysis was completed, local partners were defined, consultants recruited and the project team trained on communications strategy. The project has been extended for one year.
- **Biogas/Fertiliser Generation in Geben-Kahramanmaras:** The project ended as of December 2008. Although the assembly of the facility was not complete by this time, gas production had been successfully achieved in one of the units in early November. EIP signed a contract with Yabatas Inc. to provide maintenance and operations support to the villagers.

6.1.4 EIP Expenditures, 2008

Table 6.2 shows the amount budgeted for the EIP and the cumulative amount spent since the inception. Table 6.3 shows the breakdown of expenditures for 2008.

Table 6.2: EIP Budget and Expenditures ($), 2003-2008

	Azerbaijan	Georgia	Turkey	TOTAL
EIP Budget	3,467,000	3,000,000	3,450,000	9,917,000
Total Spent to date (at end 2008)	1,697,298	2,227,948	3,390,000	7,315,246

Table 6.3: Summary of EIP (Operations Phase) Expenditures ($), 2008

	Azerbaijan	Georgia	Turkey	TOTAL
Planned	1,100,000	300,000	890,000	2,290,000
Actual	721,762	300,000	850,000	1,871,762

6.1.5 EIP Budget, 2009

The EIP and CIP budgets in Azerbaijan were consolidated and became part of the overall social investment budget.

Table 6.4 shows the breakdown of 2009 planned budget.

Table 6.4: EIP Budget ($), 2009

	Azerbaijan	Georgia	Turkey	TOTAL
Budget 2009	>1,000,000[5]	300,000	850,000	>2,150,000

6.2 SUMMARY OF CIP

The following table summarises the projects being performed across all three countries under the CIP (Table 6.5). This is followed by an outline of project activity in each country.

[5] Consolidated social investment budget for Az EIP & CIP

Table 6.5: BTC/SCP CIP and Other Investments - Visualising the Benefits (up to end 2008)

Investment Type	AZERBAIJAN	GEORGIA	TURKEY
Number of communities benefiting	150	79	331
Amount of money invested (US$)	$11.92 million[6]	$3.86 million	$13,6 million ($ 2.7 m was allocated for 2008)
Implementing Partners (IP)/ Number of local/national NGOs	5 IPs and 10 local NGOs	1 IP and 5 NGOs assisting	4 IPs (all national) and many local NGOs/cooperatives assisting
% Women in Community Action Groups	—	22%	Varies from 5% to100% according to region. (All CIPs have programmes targeting women)
Number of medical facilities improved	42	2	11
Number of education facilities improved	52 (in addition 14 schools have received computers)	5	95 schools upgraded (in addition 622 students applied to open school programme most of whom are girls)
Number of water supply systems improved	85 (potable and irrigation)	19 potable, 11 irrigation	120 potable water systems 13 irrigation
Km of road upgraded	220.97 km	7 km	Road improvements were not included in CIP Turkey (except Çalabaş village road in Ardahan). Construction Contractors upgraded the roads.
% Infrastructure project achieving >25% community contribution	—	100%	95%
Number of medical staff trained	497	0	399
Number of people receiving direct medical support	183,970	0	Over 34,000 people received general health trainings (also over 13,000 people received Reproductive Health training from an EU funded project implemented by a CIP IP)
Number of micro loans issued	379,916[7]	3,830	(micro-loans were cancelled and funds are used for collective income generation activities in agro-businesses such as fodder crop production and milk collection by cooperatives)
% Repayment rate for micro-loans	97%	100%	N/A
Average value of micro-loan (US$)	854[8]	1,680	N/A
% Women receiving micro-loans	27%	45%	N/A
Number of demonstration farms / agricultural trainers	48 agricultural trainers, 49 demonstration fields and 13 farms	100 demonstration farms / 11 trainers	1142 demonstration farms were established in villages along the BTC route
Number of farmers trained	4,330	2,428	Over 37,000 (also 791) beekeepers)
Number of livestock vaccinated	—	828	Over 500,000 livestock vaccinated
Weight of high quality seed provided	17.3 tonnes	11.6 tonnes	Over 1000 tones
Number of co-operatives established	1 Development Resource Centre in Yevlakh 4 Agricultural Service Centres 8 Water Purification LLC's	20 co-operatives (13 producer and 7 service groups are created)	94 village based organisations established (Cooperatives, Village Development Associations and informal CBOs). In addition existing cooperatives also included in capacity building programme).

[6] Amount invested: till 31st 2006 – accruals plus amount disbursed, from 1st January 2007 – only amount disbursed.
[7] All the data re micro-loans includes projects of regional development initiative.
[8] Average value of micro-loan for year 2008 is $USD 2,117.

6.2.1 Azerbaijan

The following activities of note took place in 2008:

- The Sustainable Environmental and Economic Livelihoods (SEEL) Program began with its goal to improve the quality of life and increase opportunities for sustainable livelihoods in the target areas.
- Water Purification Programme Phase II, which started in the beginning of 2007 and is implemented by Umid NGO, was continued. The programme was targeted on communities along the BTC/SCP route that lack potable water.
- Junior Achievement Azerbaijan began the Community Economics and Business Education Program (CEBEP). This supports the creation of a workforce of economically and business educated people with the skills and knowledge to be the next generation of business leaders.
- Junior Achievement Azerbaijan continued the School Economic and Business Education Programme to provide economic and business training for secondary school students and other interested community members.
- Madad continued the School Connectivity and Global Citizenship Programme Phase II for communities along the BTC/SCP route and a similar programme for the Baku corridor.
- The Youth Employment and Economic Opportunities Expansion Initiative helped youths living along the Baku corridor through apprenticeship courses and by giving grants for establishing their own business.
- Phase III of the Community Investment Programme enhanced relations between BP and co-venturers and communities along the pipeline by investing in targeted communities that demonstrate a commitment to becoming models for sustainable development.
- FINCA Azerbaijan continued the Community Investment Program Baku Corridor Microfinance Initiative to give increased economic opportunity and provide sustainable, equitable economic growth in affected target areas.
- The Community Economic Education Program (COMEEP) continued to support the creation of the next generation of business leaders.
- The British Council began the Interactive Science Project to support student-centred, interactive approaches to teaching and learning science subjects (biology, chemistry and physics).

6.2.2 Georgia

The Operations Phase of the CIP (CIP II) was launched in August 2006 and is due to finish in July 2009. Its main goal is to enhance positive relations between BP and communities along the BTC/SCP pipeline route through sustainable socio-economic development. Initially a project implementation contract was signed with CARE International with the following project themes:

- Community mobilisation;
- Infrastructure rehabilitation;
- Economic and agricultural development, support for business start up and provision of micro credit;
- Education and youth empowerment.

CARE International has been working with a consortium of 5 national NGOs to support communities implement and sustain self–help projects, thereby improving the livelihoods and opportunities for pipeline affected communities through a partnership relationship with BP.

Key achievements of the project in 2008 were as following:

- 40 rehabilitation projects were implemented that had a mainly economic focus: 45% were potable water system rehabilitation projects and 26% irrigation system rehabilitation. These allowed over 1,000 households to irrigate over 1,900 ha of land plots and orchards. Planting of potato seeds and different kind of vegetables increased from 15% to 50%. Most of the villages enjoyed bigger harvests (average increase 30%) compared with previous years.
- All grantee agricultural producer and service groups are functioning. More than 11,000 vaccinations were provided to 2,800 households within their activities. 50 Ha of land were tilled and 15 ha of land were cultivated with machinery received by the service groups.
- All young women start-up businesses are operational. The second round of the entrepreneurs grant competition project selected 19 ladies for future funding. In total 27 grants were disbursed to start new businesses.
- Rehabilitation projects were implemented in five target schools. The project continued supporting Ministry of Education reform via strengthening the capacity of the Board of Trustees at schools.

In March 2008 CIP, BTC and SCP started the “Farmers to Market” (CIP/FtoM) project, which is due to finish in August 2010. The main themes are:

- To give farmers increased access to agricultural product buyers via establishing 4-6 Consolidation Centers.
- To give farmers increased skills, knowledge and tools for improved marketing of their products.

Key achievements of the project were:

- Business partners for the first Consolidation Center were selected.
- A Consolidation Center for honey processing and packaging was established. The Center was legally registered at the State Tax Department as a Limited Liability Company.
- 1,600 kg of honey was purchased from 32 farmers from villages along the pipeline. Packed product was delivered to supermarkets.

A business partner for the second Consolidation Center was selected. The center will be established in 2009.

6.2.3 Turkey

2008 was the second year of phase two of CIP in Turkey, with Implementing Partners (IPs) focussing on increasing income by:

- Enhancing the production of high value crops.
- Supporting development and sustainability of small agro-businesses.
- Increasing the scale of production to increase profit.
- Provision of assistance on sales and marketing.

Where possible IPs have transferred responsibilities to local organisations (village cooperatives and development associations) to ensure the sustainability of the projects after the exit of the CIP.

Key achievements in developing the capacity of local organisations are as follows:

- In Erzurum the Cattle Breeders Union completed all vaccinations not only in CIP villages but in all villages of Erzurum province.
- The Damal Agricultural Co-operative in Ardahan province completed their second milk collection activity resulting in a profit for its members and attracting a $ 30,000 support grant from the sub-governorship.

- Hasköy Cooperative managed to leverage funds (approximately $52,000) from the Ardahan Governorship with the support of the CIP partner for operating capital and the establishment of a milk collection center building.
- Posof Cooperative obtained $150,000 from the Ministry of Agriculture to buy new machines for the fruit processing center.
- Erkadın Women Cooperative, a women's textile co-operative in Erzincan, continued business development and marketing activities without project intervention.
- Sarız Hanımeli women Cooperative in Kayseri sold its pastry products to national and local markets.
- Başaran Women Cooperative, which produces boxes and packages, sold its first products to a shoe exporting company in Istanbul.
- Sipoyakki (hand craft/jewellery) producing women in Sivas sold all its products and sent trainers to teach women in Kars.
- Organic strawberry production in Erzincan exceeded 30 tonnes, which were sold in local markets.
- 14 cooperatives such as Balıklı Cooperative around PT3 in Erzincan continued to produce fodder crop and sell it to its members in BTC affected villages. As a result, villages reported a considerable increase in milk production.

6.2.4 Summary of the Regional Development Initiative (RDI) Programme

2008 was the expansion year for the Regional Development Initiative (RDI) in Turkey. Four projects, each developed in 2007, were implemented and three new projects (one being the second phase of a previously launched project) were developed.

Table 6.6: RDI projects launched in 2008 in Turkey

Project	Partners	BTC Grant (US$)	Partner Contribution (US$)
Supporting Sustainable Livelihoods for Yumurtalık and Gölovası Fishermen	PAR Consultancy	350,000	200,000
Towards an Industrial Symbiosis Programme in Iskenderun Bay Area – Phase 1	United Nations Development Programme Turkey	100,000	20,000
Employment and Enterprise Development Based on Inter-sectoral Cooperation in Çukurova Region – Phase 2	National Employment Agency (ISKUR) and National SME Development Agency (KOSGEB)	1,370,000	2,032,000 1,180,440
TOTAL		**1,470,000**	**3,432,440**

Highlights from On-going Projects:

A brief summary of progress made in the earlier projects is provided below.

Organic Honey Project in Ardahan and Kars:

This project, developed in cooperation with IFC, brings together rural producers in Ardahan and Kars and an SME organic honey producer, TEMARI.

In 2008 167 beekeepers were trained, bringing the total to 273. 144 beekeepers have now signed contracts to supply TEMARI.

Antakya Landfill Facility Project:

This project was launched in cooperation with Antakya Municipality and BIL to help the landfill to meet EU standards and to establish an environmental management system for its operation. This will provide a new site for BTC and other companies on the east Mediterranean coast of Turkey to dispose waste, decreasing waste management costs of BTC as well as HSE risks.

Construction of the facility was completed and a work completion certificate will be provided to the contractor after the final check by the implementing partner ISTAC.

In parallel, plans for management systems and capacity building have been developed by the IP and discussed with Antakya Municipality.

Employment and Enterprise Development Based on Inter-sectoral Cooperation in Çukurova Region:

The first phase of this project, a gap analysis, has been completed and meetings held with businesses, investors, professional organisations, local authorities and other stakeholders. Interviews and focus group discussions with possible beneficiaries were also held. A report of the results was shared with stakeholders at a meeting in Adana. Feedback from stakeholders was taken into account when the second phase (services and support packs) was developed by the implementing partner. This phase includes:

- Vocational training, ordered training, and career consultancy for the unemployed.
- Training, coaching and technical support for potential entrepreneurs.
- SME development support, including networking, regional competitiveness research and facilitation of access to finance.
- Establishment of a project pool and facilitation of access to funds.

Contracts have been signed with the project partners for the 2nd phase activities and the following budget agreed:

BTC	**1,370,000 USD**
ISKUR (national employment agency)	**2,032,000 USD**
KOSGEB (national SME development agency)	**1,180,000 USD**
Total	**4,582,000 USD**

Credit Guarantee Fund for the SMEs along BTC Route

Project promotion meetings were held in 7 provinces (Ardahan, Kars, Erzurum, Erzincan & Gümüşhane, Sivas and Kayseri) in cooperation with province trade chambers. Where possible, representatives of agricultural bank participated in the meetings.

13 projects were approved, with micro-credit guarantees totalling $ 360,000.

6.2.5 CIP Expenditures 2008

CIP expenditures for the total Operations phase and for the year 2008 are summarised in Tables 6.7 and 6.8.

In Georgia CIP II expenditures for 2008 included expenditures associated with the CIP II 1st year contract, which was completed in June 2007 and expenditures for the CIP II two-year contract effective from July 2007.

Table 6.7: Operations Phase CIP II Budget and Expenditures ($) 2006-2008 (BTC/SCP only)

	Azerbaijan	Georgia	Turkey	TOTAL
CIP II Budget	6,882,597	4,380,000[9]	7,335,000	18,597,597
Total Spend up to the end 2008	6,207,161	3,023,041	7,335,000	16,565,202

Table 6.8: Summary of BTC/SCP CIP II Expenditures ($), 2008

	Azerbaijan	Georgia	Turkey	TOTAL
Planned	1,259,597	1,439,301	2,695,000	5,393,898
Actual 2008	495,227[10]	1,309,069	2,695,000	4,499,296

6.3 CIP BUDGET, 2009

The BTC CIP II budget for 2009 is presented in Table 6.9 below.

Table 6.9: BTC CIP II Budget ($), 2009

	Azerbaijan	Georgia	Turkey	TOTAL
Budget 2009	>1,000,000[11]	536,945	2,400,000	>3,936,945

7 E&S MONITORING PROGRAMME

7.1 INTERNAL MONITORING

Internal monitoring takes place as necessary on a daily basis or through theme audits and reviews. In some cases the review might result in actions and recommendations for implementation.

Non-compliances are only raised by BTC or BIL in certain circumstances, generally for persistent issues that need management attention. If the matter can be rectified in a timely manner through local site intervention, non-compliance is not generally raised. The status of all internal non-compliances raised is given in the relevant country sections in this Chapter.

BTC has also developed a set of tools to assist in the management of E&S issues including detailed monthly reports and quarterly performance reviews.

Detailed summary of internal ESMS monitoring commitments completed during the year is provided in Section 4.2 and monitoring results in Appendix 2.

7.2 EXTERNAL MONITORING

7.2.1 Host Government Monitoring

7.2.1.1 Azerbaijan

In 2008 MENR made no requests to visit any BTC facilities. BTC has proactively invited MENR to visit the BTC ROW and above ground installations in order to allow them to conduct regular inspections. To date, these invitations have not been accepted.

[9] CIP II 1st year contract value was $1,470,000;CIP II 2nd and 3rd year contract value is $2,390,000. Farmers to Market contract value is $520,000.
[10] Actual commitment based sum.
[11] Consolidated social investment budget for Az EIP & CIP.

However, it has been agreed with MENR that it will send representatives to visit various BTC river crossing sites which have been subject to erosion repair works in late 2008. This visit is scheduled for April 2009.

7.2.1.2 Georgia

BP coordinated bi-weekly meetings with Georgian Oil and Gas Corporation (GOGC) and the Ministry of Environment. Other meetings were held with the Georgian Prime Minister and the Ministers of Energy, Economic Development, Interior, as well as governmental bodies.

7.2.1.3 Turkey

Turkish regulatory authorities visited all facilities in Turkey within 2008. The main purpose of the visits was to verify the air emission permit application information provided by BIL, prior to issuing the permits. In addition the Provincial Directorate of MoEF in Adana conducted an integrated audit of the CMT facility in accordance with Turkey's new Environmental Inspection Regulation.

7.2.2 NGO Monitoring

7.2.2.1 Azerbaijan

NGO monitoring of the BTC pipeline continued in 2008 as part of a broader Civic Response Network Project coordinated by the Open Society Institute of Azerbaijan. During the year BP representatives met with OSI representatives and NGOs involved in the CRN Project to hear their views, discuss monitoring results and respond to any questions and issues. More information is provided in Section 8.2.2.

7.2.2.2 Georgia

BP continued to engage with NGOs through a number of initiatives. In June 2008 BP Georgia organized a round table discussion with national NGOs with the aim of providing a BP business update and discuss forthcoming plans related to BP's activities in the country, including construction of the EU compliant landfill near the city of Rustavi.

In November 2008 BP took part in a workshop on transparency and reporting organized by UN Global Compact Initiative. The workshop brought together representatives of NGOs and business organizations. BP was invited as a guest speaker to share company's best practice in transparency and corporate reporting. More information is provided in Section 8.3.2.

7.2.2.3 Turkey

In Turkey a facilitating/capacity building organisation is not being used as in Azerbaijan and Georgia since many national NGOs are already involved in the Project, their experience is generally greater, and there was a lack of demand for a facilitated scheme. Notwithstanding, BTC and BIL continued to engage both national and regional stakeholders to discuss specific issues on an as needed basis (refer to Section 8.4.3.1).

7.3 TRAINING

7.3.1 Azerbaijan

Training for BTC Operations continued to focus on ESMS and ISO14001 awareness to Operations staff. Training was also given on key issues such as waste management, wastewater management, emissions management and cultural heritage. Environmental awareness continued to be a component of the induction process for all new staff. Internal social awareness training was delivered to all operations offices and field personnel. The key topics were ESIA social commitments, complaints management process, ROW vehicle access procedure and key principles to land acquisition and compensation.

Training was delivered though a variety of media ranging from formal classroom training to toolbox talks. Computer based training modules have also been developed for certain subjects, such as ISO14001 awareness. External trainers were contracted for longer courses including ISO14001 lead auditor training for environmental staff.

7.3.2 Georgia

Training for BTC Operations in 2008 focused on ESMS and ISO 14001 awareness. Other key issues included site personnel training on the following topics: a) AGI and ROW environmental aspects and impacts management, b) pollution prevention and housekeeping and c) waste management procedure specific trainings.

Training was delivered mostly at sites through formal classroom training as well as toolbox talks.

7.3.3 Turkey

In Turkey, BIL continued to provide environmental and social training to operations and maintenance teams. Training topics were wide in scope and have been tailored to the departmental teams according to their roles. Further, in ISO14001 lead auditor and OHAS18001 trainings were provided for BIL staff. A five day training programme was conducted by an Oil Spill training company contracted by BTC. The programme focused on the environmental aspects, particularly waste management and oiled wildlife response aspects of an oil spill.

8 PROJECT COMMUNICATION

8.1 CONSULTATION APPROACH

Consultation and communication with various Project stakeholders, from communities to Government organisations, was ongoing during 2008 with the key objective being to avoid situations that could lead to complaints. Where complaints do arise, as is inevitable for a project of this size and complexity, effort is made to ensure they are resolved promptly. Information on complaints raised by project affected communities is detailed below.

Across the Project, significant efforts were also made to engage other Project stakeholders, such as national NGOs, government ministries and the local and national media. Information on meetings held with key stakeholders in 2008 is provided below.

8.2 AZERBAIJAN

8.2.1 Project Affected Communities

There were a number of community relations initiatives launched by the Operation's social team in response to various requests from Project Affected Communities.

One initiative developed by the social and security teams involved the formation of Regulatory and Emergency Committees. The goal of this initiative is to facilitate effective community liaison, complaints resolution, and awareness in relation to company activities as well as communication in the case of emergency. The key stakeholders of the affected districts are the committee members. They helped operations social staff resolve the problems related to the pipeline operations and patrolling activities. Also committee members successfully participated in the Emergency Response exercises launched by BP.

8.2.1.1 Interim Routine Right of Way Access Strategy

A key commitment of the ESIAs and the RAP was to reinstate land disturbed by pipeline construction activities.

At the time the ESIA and RAP recognized that access would be required for routine surveillance, maintenance and repair work, and to respond to emergencies. These provisions were also reflected in Land Lease Agreements signed between land owners and the State[12].

Since this was written, a Government of Azerbaijan Decree (2003) resulted in the formation of the Export Pipeline Protection Department (EPPD) for the purpose of providing security for the export pipelines in Azerbaijan.

An Interim Routine Access Strategy covering the period from 2007 until the end of 2008 was developed to manage access along the ROW, including EPPD activities, with the overall objective of "No Driving on the ROW after 2008".

In accordance with this objective, BP made a decision in May 2007 to stop routine driving in the pipeline corridor. In the case of an emergency, access would be allowed on the provision that, should any damages occur to the reinstated land, the land owner/user would be compensated.

A key part of the strategy was to acquire a 6m wide access track within the ROW corridor. This process necessarily involved extensive consultation, in accordance with RAP principles, which was independently monitored by the NGO Center for Legal and Economic Education (CLEE). See also Sections 3.1 and 9.1.2.

8.2.1.2 Complaints

By the end of 2008, BTC resolved the last two complaints on infrastructure damage remaining from the construction phase. Both complaints related to the damage caused to a bridge near Garajemirli and Alibayramli villages in 2004, allegedly by heavy vehicles operated by the Contractor. Due to the lack of official evidence the Contractor refused to repair the bridges. BP therefore provided financial support to local authorities and rehabilitation works were completed by a local contractor working with the municipality.

Twenty six new complaints were received in 2008. These are summarized in Table 8.1.

Table 8.1: Summary of Complaints received by BTC/SCP, 2008 (Azerbaijan)

Complaint Category	Complaints received	Complaints open at end of 2008
Parcel ownership and size	1	0
Damage to infrastructure	1	0
Irrigation	5	0
Compensation for land	14	5
Reinstatement	4	1
CIP (quality of microproject)	1	0
TOTAL	26	6

8.2.2 NGOs and Technical Organisations

In 2008, regular dialogue with NGOs and wider civil society continued via regular BP-Civil Society "Dialogue Sessions". During these sessions BP representatives provided presentations on topics related to business performance and public initiatives. Specifically, NGOs were informed about the joint project with the well-known Smithsonian Foundation aimed at conservation and promotion of the archaeological artefacts found during BTC construction.

[12] As per this agreement the State shall have the right to permit the Pipeline Companies and their contractors to carry out any activities for use and enjoyment of the Pipelines once constructed (e.g. maintain, protect, repair, alter, renew, augment, expand, extend, daily inspect, remove, replace) and abandon the Pipelines and temporarily store equipment, materials.

Regular meetings were held by Community Liaison Officers and Stakeholder Investment & Reporting Team with a range of national (Umid, Madad, GABA) and international (Junior Achievement Azerbaijan, Save the Children, FINCA) Implementing Partners to discuss progress of Community Investment Projects.

8.2.3 Government

Communications with Government during 2008 are discussed in Section 7.2.1.1.

8.3 GEORGIA

8.3.1 Project Affected Communities

The BTC Social team continues to work and communicate with local communities on a regular basis. CLOs maintain constructive relationships with communities in districts crossed by the pipelines and the Company continues to inform communities on land use restrictions and safety issues. Communications with district governors continues.

A summary of the main communications activities conducted in 2008 is as follows:

- Non-Hazardous EU-Compliant Landfill: social baseline conducted by internal resources, ESIA developed and disclosed, no issues or dissatisfaction detected from communities. Landfill construction commenced, local unskilled labour force recruited from the closest settlement. No community complaints received since the construction commenced.
- PSG1 Operations Base project and BTCX1.2 project commenced: active coaching and liaison with Turkish contractors to ensure adherence to social commitments took place. Communication with nearby communities was undertaken. There were several strikes arranged by a small part of the local labour force in relation to salary issues.
- Social Awareness Training: conducted at all sites for key Operations staff; 76% of staff were covered.
- Pipeline Safety and Restrictions: communications to the community remains a priority for CLOs and Land Officers.
- Community Liaison & Safety, Infrastructure and Services Management Plan: first internal audit. no non-compliances were detected by the audit team,
- SRAP bi-annual livelihood and income monitoring review: Performed in April; majority of recommendations are now closed. BTC announced preparedness for RAP completion audit which commenced in autumn 2008. As part of the audit, a livelihood and income restoration quantitative survey for pipeline affected landowners was conducted in November-December by a local contractor (similar surveys were done in Azerbaijan and Turkey). Another survey for the AGI-affected landowners will be conducted in 1Q09.

8.3.1.1 Complaints

The number of complaints received in 2008 was significantly less than received in previous years (Table 8.2). There remain four outstanding complaints from 2007 for which BTC has resolution plans in place.

Table 8.2: Operations Phase Complaints Log Statistics (as of December 2008)

Complaint category	Total number received to date	Number of complaints resolved	Total % of complaints resolved	Number of complaints pending
Additional Land	6	2	33%	4
Irrigation	4	3	75%	1
Land Handback	5	4	80%	1

Complaint category	Total number received to date	Number of complaints resolved	Total % of complaints resolved	Number of complaints pending
Orphan Land	3	0	0%	3
Other Land Issues	16	13	81%	3
Parcel Ownership or Size	0	0	100%	0
CBO Compensation	0	0	100%	0
Community Infrastructure	5	5	100%	0
Cracked house	2	2	100%	0
Employment	0	0	100%	0
Household Infrastructure	3	3	100%	0
Nuisance	1	1	100%	0
Miscellaneous	1	0	0%	1
TOTAL	**46**	**33**	**72%**	**13**

8.3.2 National NGOs and Technical Organisations

In 2008, full scale implementation of the program targeted at strengthening Georgian civil society was carried out. In autumn 2007 a Georgian branch of NGO "Transparency International" was selected to implement one year project "*Promoting Understanding of the Energy Sector in Georgia".* The project was implemented within the framework of BP's civil society capacity building initiative. The aim of the project was to increase public awareness of the energy sector in Georgia and to disseminate information throughout the country about related reforms. The project was completed in October 2008.

8.3.3 Government Ministries and Departments

Close contacts continue to be maintained with GOGC, various ministries and departments (e.g., Ministry of Economic Development, Ministry of Environment, Ministry of Energy, Ministry of Justice, etc). Specific dialogue proceeded in relation to the BTC expansion project, the Non-Hazardous Landfill, the Operations base at PSG1, forest use agreements, BV's and PSG2 access roads.

8.3.4 Media

During 2008, various media activities took place in Georgia including:

- A media round table arranged for local media, covering general BP business activities and social projects.
- Press release issued and interviews recorded during the Award Ceremony of the 6th Biodiversity Competition involving BP management, government, scientists, local NGOs and media.
- Press release issued and interviews recorded with BP Georgia's External Affairs Manager after the certificate award ceremony for Georgian journalists held in the British Council for the English Language Training Program.
- Press release issued for the cultural exchange program between Rustaveli Theatre and UK National Theatre sponsored by BP and HSBC in partnership with the British Council.
- Press release issued and interviews recoded with BP Cultural Heritage coordinator for the capacity building project for the Georgian National Museum staff, archaeology experts and students.

- Press release issued for “Business Optimism Study” prepared under IFC Business Enabling Project.
- Interviews were organized for French economic newspaper “Les Echos” and a newspaper “20 Minutes” followed by balanced and positive articles regarding BP and its importance for Georgia;

8.3.5 Donor Organisations

BTC continued to meet with various development organizations in Georgia including: UNDP, USAID, World Bank, IFC, Millennium Challenge Commission Georgia and several national and international NGOs.

BTC, in collaboration with number of international organizations continues to implement a number of projects in Georgia, including: solid waste management program as part of the Greater Borjomi Initiative (in association with GTZ), which completed in December 2008; Georgia Enabling Business Environment Project (IFC); Corporate Governance Project (IFC), Technical Assistance and Landing Support to Constanta Foundation (EBRD), Technical Assistance to Georgian Oil and Gas Corporation (EBRD and MCC), Energy Efficiency Project (USAID, EBRD, OSCE).

Regular talks with donor organizations continue with the aim of defining potential areas for future engagement.

8.4 TURKEY

8.4.1 Consultation

8.4.1.1 BIL

There has been a significant improvement in the BIL community relations resources during this reporting period with the support of BTC. The main changes in the BIL Community Relation Team are as follows:

- BIL’s Public and Community Relations Department was enlarged with the additional four new Public and Community Relations Experts (PCREs) in 2008. BIL can now ensure full time PCRE presence at each site after provision of back to back coverage of PCRE personnel (except PT3).
- Each BIL PCREs have access to their own vehicles, mobile phones and computers in the field.
- Almost all of the recently employed staff were involved in community relations management during construction phase. They are familiar with the Project, very well known by the communities and also aware of the on-going issues since they were involved in social review work conducted by BTC in August-September 2008 as social consultants.
- Each PCRE received comprehensive training in 2008 with regard to their jobs. Some of the training subjects were; Conflict Management, Community Relation Management, Media Training etc.

The above developments demonstrate that BIL has taken serious steps to enhance its community relations department which has shown its impacts in a positive way (i.e. number of community meetings increased, improvement in registration of the complaints etc).

In addition to the PCREs, a pipeline monitoring and maintenance team was set up in BIL during this reporting period. This team now plays an important role in terms of disseminating information relating to land use restrictions and also helps resolve Third Party Crossing Procedure violations.

8.4.1.2 Community Meetings

In total 673 community meetings were organized by PCREs during 2008. A breakdown of meetings held by BIL in 2008 is shown in Table 8.3.

Community Pamphlets which provide information on land use restrictions, emergency response, security etc were distributed to all villages and other local stakeholders by PCREs during these meetings.

In addition BTC financed the establishment of Village Information Boards in 300 villages along the pipeline. Posters on land use restrictions, emergency phone numbers, PCRE contact details and CIP-related information are displayed on the boards.

Table 8.3: BIL Community Meetings, 2008

BIL Community Meetings	No. of Village Meetings	Stakeholder Meetings
Introductory meetings	15	18
Community Awareness and Consultation Meeting	114	48
Regular Meetings(follow-up to introductory meetings)	155	228
ER/Oil Spill Drill Notifications	15	-
Land-use Restriction Notification meetings*	14	7
Women's Meetings	5	-
Third-party crossings*	10	14
SRAP Audit	21	-
Illegal tap consultation meetings/ROW Security	3	-
Other (holiday courtesy visits; response to particular issues etc) Evaluation Meeting with BTC.	302	1
1.2 Expansion Meeting	6	-
Social Compliance Review	13	-
TOTAL	**673**	**316**

*The scope of introductory and regular follow-up meetings includes land-use restrictions and third-party crossings. These subject specific meetings were held in some cases to re-emphasise these issues where considered necessary.

8.4.1.3 Regional stakeholders meetings

BIL stakeholder communication included consultation meetings with the local Gendarme, Provincial governors, District sub-governors, Mayors, Government utility providers, Government Departments, etc. The purpose of these meetings was to introduce BIL and discuss restrictions regarding land-use and third-party crossings. Throughout the year the Public and Community Relations Department of BIL also hosted official visitors to CMT including country representatives, government officials and NGO representatives.

8.4.2 Complaints Management

During this reporting period 546 complaints were received, as shown in Table 8.4.

Table 8.4: Total Number and Category of Operation Complaints received, 2008

Subject	Number 2006	Number 2007	Number 2008	Residual Open 2008
Employment	24	2	7	1
Reinstatement *	12	37	390	283
Access to land and other resources	2	0	2	1
Damage to property, crops and land	2	16	20	14
Damage to infrastructure and community assets**	3	10	77	56
Dust	1	1	0	0
Payment/ Payment to service provider	5	7	22	8
Local Procurement	3	1	1	0
Outstanding expropriation payment	0	13	17	11
Misconduct of BIL employees	0	1	0	0
CIP – perceived inequity in distribution of support	0	1	5	1
Decrease or loss of livelihood	0	0	3	1
Other (3rd Party Crossing)	0	0	2	0
TOTAL	**52**	**89**	**546**	**376**

* Includes reinstatement, biorestoration, border, grading, riprap, soil, transportation, stone complaints

** Includes damage to channels, irrigation channels, drinking water, drainage, water source, road, bridge

It can be seen that the majority of the complaints received during the 2008 period related to reinstatement issues. Many of these were connected to the land exit process and many remain unresolved. BTC will contract a construction company to deal with these and other complaints relating to crop and land damage during the spring /summer season of 2009.

Most complaints relating to land repair and compensation for damages associated with illegal taps have already been handled by BIL's ROW Maintenance Team Those that are outstanding will also be resolved in the coming Spring/summer.

The third highest number of operational complaints received in 2008 related to compensation payments for camp sites. Some payments have been made (e.g., PT2); the others will be paid in the coming months.

8.4.3 BTC

8.4.3.1 Consultation Activities with Government, NGOs and other Donor Institutions

BTC also undertook various stakeholder meetings as part of its business. The majority of the meetings related to Investment Programmes (EIP, CIP and RDI). Investment stakeholders with whom meetings were held included local, regional and national government representatives, development / donor organisations such as UNDP, National and international NGOs, universities and private businesses. The objectives of the investment stakeholder meetings were to raise awareness and support for the investment activities, promote cross-learning across villages and municipalities, understand government and NGO future priorities and strategies, seek additional funds, etc.

In 2008 two main CIP&RDI workshops were held discuss the progress in CIP and RDI projects. These workshops involved all Implementing Partners (IPs), representatives of local NGOs, cooperatives, local Government, and other donors. Similar workshops were organised for Environmental Investment Programme.

BTC also held meetings and other formal communications with the Ministry of Environment and Forestry (MoEF) and Ministry of Energy and Natural Resources (MoENR) with respect to Operations, BTC Expansion and other Enhancement Projects as well as clarifications on environmental legal requirements such as discharge standards and the national EIA process.

A summary of the number of meetings or other formal communications held by BTC is shown in Table 8.5. Note that the number of meetings held does not include meetings held by EIP/CIP IPs. The IPs held many district and village level meetings in addition to those shown in the table below.

Table 8.5: BTC Stakeholder Meetings, 2008

Type of Meeting	No. of Consultations*
Donor	6
Government	25
NGO	15
Private companies	3
University	4
TOTAL	**53**

* In some cases, consultation can represent a series of meetings on the same subject.

8.4.3.2 Media

BTC is managing the relations with Media institutions in Turkey in line with the operating Agreement with BIL. Several press events were organised to disseminate information about the progress of the BTC project as well as to launch CIP&RDI and EIP projects.

9 LAND ACQUISITION AND COMPENSATION

The land acquisition and compensation process, land hand-back and livelihood restoration activities are described in the Resettlement Action Plan (RAP). This section of the report summarises relevant activities conducted in 2008.

9.1 AZERBAIJAN

9.1.1 Land Acquisition, Exit and Compensation

The primary land acquisition and compensation process for the pipeline ROW in Azerbaijan has been successfully completed. As noted in the previous report, bank accounts have been established for all people, in all districts, except for nine unavailable landowners (compensation for these owners has been retained until such time as they are located). The relevant compensations have been paid to 99.9% of the land owners/land users.

In accordance with Land Lease Agreement, Article 2.04 (b) “As soon as practicable after construction of the Pipelines is completed, the State shall ensure that re-cultivation works are carried out and that the Construction Corridor is returned to its original condition”. BP (as BTC project operator) and its main contractor CCIC were assigned by State to perform this process on behalf of State.

By the end of March 2008, 6,646 land parcels had been handed back to the land owners/users and corresponding Land Exit Agreements signed. Although the signing of the Land Exit Agreements mainly was performed by Contractor and has covered 99.2 % of land parcels, there are a number of cases when the Contractor could not be responsible for the signing of the Land Exit agreements. The main reasons for such cases were as follows:

- Horizontal Direction Drilling (HDD) site: Pre-Entry Agreements were signed with 10 land owners for the restriction applied and relevant compensation was paid to the landowners;
- As a result of construction there was number of new land parcels affected. The Contractor did not have records relating to these land parcels as no pre-entry agreements were signed. Such cases have been revealed, the land lease agreements were signed and relevant compensations paid to such landowner/land users by BTC.

At present there are 54 cases where the Land Exit Agreement has not been signed by landowners/land users. The main reasons are: the absence or unavailability of landowner/land users (being out of the country, died, in prison or heritage family disputes etc). BP monitors such cases and once the landowner/user is available, the agreement will be signed and compensation paid. The agreed action plan for closure of these outstanding land exit agreements on a village by village basis was developed with assigned responsibilities and suggested budget. The plan is being successfully implemented.

The land exit process has been implemented by the BP land team with the help of local land committees and was monitored by BP social team along with third party NGO CLEE. No issues or concerns were reported.

9.1.2 Land Acquisition Program for 6m Access Corridor for Interim Routine Right of Way Access Strategy

As the part of the ESIA and RAP compliance, BTC has acquired the 6m land strip for the temporary driving of Azerbaijan Government Export Pipeline Protection Department (EPPD) vehicles. This land acquisition process consisted of the following stages: consultation with landowners/land users, notification, agreement signing, land entry, compensation payments and at the end, land exit. By the end of 2008, the following activities had been accomplished:

- Public consultation with national and international NGOs, affected community members and landowners/users.
- Negotiation and signing of the Addendum to agreements and Land Pre-Entry Agreements for 5,192 land parcels with 3,503 landowners/users (98% is completed).
- Compensation payment process (98% transferred and 98% physically paid).
- Land Exit agreements signing with landowners/users process (98% is completed)
- Complaints management.

BP has developed a detailed action plan to close all outstanding exit cases.

9.2 GEORGIA

9.2.1 Acquisition and Compensation

As of December 2008, land acquisition in Georgia is nearly complete. To date a total of approximately 11 million USD has been paid out for land acquisition and approximately 13 million USD has been disbursed as compensation for crop loss. Table 9.1 summarizes key information regarding the acquisition, compensation and hand back of land used.

It is noteworthy that large number of errors in the state land registration and documentation system were identified and rectified throughout the land acquisition process. One outcome was that the number of land parcels involved in the compensation process grew from 2782 to 3522.

Table 9.1: Number of Land Parcels for which compensation has been paid (to end December 2008)

	Private Land Parcels		High Mountain Village Land Parcels		State Leased Land Parcels	
District	**Required**	**Actual**	**Required**	**Actual**	**Required**	**Actual**
Total	3,522	3,472	206	206	239	224
% Complete	-	99%	-	100%	-	94%

9.2.2 Land Registration and Ownership

Some of the ongoing court cases regarding land registration and titling have not yet been finalised. Additional payments may be necessary, for example in Tabatskuri and Naokhrebi:

- **Tabatskuri:** BTC paid full compensations to 98 owners identified on the original database, however the courts have annulled the ownership documents in the entire Sakrebulo. In the event new owners emerge, BTC may have to pay compensations again.
- **Naokhrebi:** Naokhrebi: The villagers of Naokhrebi village filed a court claim in 2006 against the local municipality to privatize land which, in 2003, was allocated to BTC as state land and on which the State replacement fee was paid. The court ruled in favour of the villagers and as a result ownership certificates were issued. BTC has filed the court case against Akhaltsikhe Municipality/Villagers demanding ownership certificates to be declared null and void. The case is still in the court. In total there are 62 land parcels affected.

In addition, there are 34 absent landowners, and for all parcels BTC has acquired Necessary Right Of Way (NROW). However, BTC may have potential difficulties negotiating land price offers, as land market prices fluctuate.

9.2.3 RAP Fund

The budget for land acquisition and RAP costs for the Georgia section of the BTC pipeline project was estimated to be 10.8 million USD. The actual expenditure amounted to 26.4 million USD. The major elements were: payments for permanent privately owned land acquisition - $11.7million USD, Crop - $8.1million USD, Orphan Land - 3.3million USD

9.2.4 Land Hand-back

As of December 2008, the reinstatement of the ROW and many off-ROW facilities (borrow pits, etc.) are nearly 100% complete. Reinstatement of Tsalka camp and Marneuli camp were completed. Akhaltsikhe camp is scheduled to be reinstated for 2011 after the construction of permanent accommodation facility near Area 80 is complete (See Section 3.2).

Land exit agreements are still being signed with landowners and land users As of December 2008, 80% of all Land Use and Servitude Agreements have been completed. The reasons for delay in signing of land exits vary but many relate to absence of landowners (155), and changes in regulations for state registration (360).

9.3 TURKEY

9.3.1 Acquisition and Compensation

Table 9.2 provides an update of the status of the acquisition and compensation process as of the end of 2008.

Table 9.2: Land Acquisition and Compensation Progress (December 2008)

Indicators	Information Provided by Botaş DSA (DSA Monthly Report: December 2008)	
	Total (by parcel)	Percent Complete
Title Deed Registration	11,739*	98.42%
Resolution of Article 10 Cases	4,681	97.16%
Overall Land Acquisition	16,823	97.59%
Transfer or Rights to Land Status	17,943**	94.72%

*Change in the statistics compare to previous reports is due to the parcels subject to transfer, owing to different configurations).

**Those subject to transfer, owing to different configurations, are c. 18,000)

Throughout 2008 Botaş/DSA have been trying to finalise the acquisition process, mainly for additional land identified during the as-built survey. At the end of 2008 97.59% of land had been acquired. BTC will continue to monitor this process closely.

9.3.2 Land Management during Operations

BIL and Botaş/DSA have developed a Land Management Plan and signed a protocol which outlines future roles and responsibilities between DSA and BIL during Operations (refer Section 8.4.1.1).

9.3.3 Land Exit

Land exit process was been completed in 2007. Additional protocols were signed by landowners/users whose complaints were resolved in 2008.

After land exit process, reinstatement and social experts visited all villages along the BTC route in August- September 2008 mainly for two reasons:

1. To analyse the satisfaction level of people with regard to reinstatement 2 years after land exit, and to understand whether their livelihoods had been restored prior to the RAP Completion Audit.

2. To understand the scale of unresolved construction-related issues and identify any new reinstatement problems.

9.3.4 Transfer of Land Rights

Efforts to complete the transfer of land rights to BTC continue on a District basis using two Official Acts: 1) private/customary owned land; and 2) state/forest owned land.

By the end of 2008, approximately 95% of parcels had been transferred to BTC. The process will continue in 2009 for those parcels which were not ready for transfer mainly due to on-going cadastral works, court cases and due to the administrative process at the title deed offices. It's aimed to finalise the transfer of rights by 2009.

9.3.5 Misidentification of Customary Owners

The majority of outstanding cases involving the misidentification of Customary Owners were finalised in 2007. Follow-up compensation payments have now been made in relation to 296 out of 327 parcels. The remaining 31 cases have also been dealt with on a case by case basis by the DSA regional offices:

Compensation is awaited for 31 parcels due to disputed ownership (16), and due to on-going court cases (15). Botaş/DSA will make the payment to the owner as soon as the legal process completed.

9.3.6 RAP Completion Audit

The Completion Audit was confined to assessing the effectiveness of RAP measures for restoring or enhancing project affected households' standards of living and livelihood up until the end of summer 2008.

The Audit utilized both quantitative and qualitative approaches to gather data and assess household standards of living. Particular attention was paid to assessing the impact of RAP interventions on the circumstances of vulnerable households.

The focus of the audit was as follows:

- Households that are full-time residents of project affected villages and that, as owners or users of BTC affected land, are substantially reliant on agriculture for their income and livelihood.
- Households that experienced permanent loss of use of land for above ground installations (AGIs).
- Vulnerable households

The RAP completion audit had four principle components:

- NGO verification of compensation entitlements delivery, grievance redress and dispute resolution through consultation CLOSED).
- Quantitative household survey (CLOSED).
- Qualitative survey (stakeholder and key informant interviews) (TO BE DONE IN 2009).
- SRAP Panel assessment of unresolved grievances, court cases and disputes (CLOSED).

The RAP Completion Audit Qualitative field survey was completed in December 2008. Two teams conducted questionnaires in 52 villages along the pipeline and 8 villages around AGIs in 10 provinces along the BTC route. A total of 837 people were interviewed during the survey.

Field survey results are being analyzed by the survey team and the statistician employed by SRAP. Assessment report will be submitted to SRAP Panel by early 2009.

9.3.7 RAP Monitoring

9.3.7.1 Internal Monitoring

BNB (formerly RUDF)

BNB continued to monitor both the land acquisition process and operation impacts on communities during the first half of 2008.

During 2002-2008, all villages affected by BTC were monitored by the third party NGO periodically. Every settlement on the BTC route was visited approximately 3 times annually and approximately 10-15 times during the project for monitoring and evaluation. During this period, no village was missed by BNB.

Main outcomes of the field survey were as follows:

- 90% of local employment is for unskilled workers. Local communities expected more employment.
- Purchasing of local goods and services is generally for camp necessities. High quality goods and services are purchased from the nearest district and province.
- Need for additional meetings to raise awareness on land use restrictions in some villages.
- Rental payments for campsites was an important issue.

- Need to improve grievance management system: more staff are needed.
- Land: third party crossings does not constitute a problem.

9.3.7.2 Fishermen Monitoring

The last monitoring survey was conducted in December 2007. The result of these surveys were presented in the previous report (2007). No additional monitoring activity was conducted in 2008, however engagement with fishermen on CIP and operational issues continued.

BTC and the CIP Implementing Partner who is working in Adana region contacted fisheries experts in Cumurova University and requested them to undertake an assessment survey on fishermen communities. The survey had two main aims:

- To analyse the current situation with regard to the impacts of Operations on the incomes of the fishermen
- To identify additional investment opportunities for fishermen families under CIP.

Highlights from the survey were as follows:

- The main outcome of the survey was that BTC's operations have no significant impact on fishing activities. Despite this conclusion, there remains a very high expectation for additional cash to be paid to all of them.
- Golovasi village was not interested in any investment projects related to fishing activities (training, support to complete necessary licenses and equipment, alternative fishing methods etc); they'd prefer alternative income generating activities but many of them asked for permanent jobs.
- The fishermen in Yumurtalık district were interested in the establishment of an artificial reef in their fishing grounds. There were additional requests for vocational training.

All of these suggestions were considered during the design of CIP in these communities in 2008 (see Section 6.2.4).

10 SUMMARY OF KEY HEALTH AND SAFETY STATISTICS

BTC reported two sets of health and safety (H&S) statistics in 2008: Construction and Operations as both sets of activities were evident across the three countries, although work carried out by the construction team was limited.

Table 10.1 presents an overview of cumulative BTC performance in projects and operations in comparison to International Industry Safety Performance:

Table 10.1: BTC (BP Controlled) H&S Performance

	BTC Statistics for 2006	BTC Statistics for 2007	BTC Statistics for 2008	IPLOCA Statistics for 2004
Number of Contractors submitting data*	25	32	42	56
Total man-hours	3,407,082	3,333,635	3,534,100	650,123,559
Project Reportable Fatality	1	0	0	34
DAFWC	1	0	0	2,247
DAFWC f rate	0.06	0.00	0.00	0.69

Notes: IPLOCA – International Pipeline and Offshore Constructors Association
200,000 man hours is used to calculate DAFWC frequency
DAFWC: Days Away from Work Cases (frequency)
** Data on Contractors for 2006-2007 was amended*

10.1 BTC PROJECT (CONSTRUCTION) H&S PERFORMANCE

In 2008 BTC initiated construction activities as part of the DRA Project[13]. All targets on leading indicators of H&S performance were met. Personnel were also actively involved into STOP and SOC programs as shown in Table 10.2.

Table 10.2: BTC Project Leading Indicators

Project Inputs	2008 Target	2008 Performance
Safety Observations and Conversation (SOC) frequency	600	659
STOP Observation frequency	3,000	3,164
Safety Training Hours frequency	4,000	5,206

Due to the setting of the project, the poor condition of roads and public driving culture, driving remains a high hazard. Three traffic vehicle accidents (TVA), two in Georgia and one in Turkey were recorded. Two Recordable Injuries and illnesses occurred in Georgia; both cases were classified as restricted work cases (Table 10.3).

Table 10.3: BTC Project Lagging Indicators

Project Performance Outputs (Actual)	2008	Project to Date
Man-hours	1,968,798	114,432,278
Fatalities	0	10
DAFWC	0	56
Medical Treatment and Restricted Work	2	280
Recordable Illnesses	0	287
Total Recordable	2	633
First Aid Cases	6	1,270
Near Misses	7	832
Traffic Vehicle Accidents	3	418
Kilometres Driven	3,426,761	215,768,113

10.2 BTC OPERATIONS H&S PERFORMANCE

In 2008 BTC Emergency Response Plans were updated across countries. Join oil spill cross boarder exercise was successfully conducted in September 2008.

Within Control of Work (COW), Interrelated Safe System of Work (ISSOW) was developed and implemented in Georgia and Azerbaijan. The system greatly contributes into the process of risk control and permit to work. Several workshops on COW and Integrity Management were delivered at sites in Azerbaijan and Georgia and for BIL management representatives in Turkey.

In Azerbaijan and Georgia, the process of nationalization of Health & Safety personnel was fully completed.

BTC experienced two major accidents in 2008. One of them involved and explosion and fire of Block Valve 30 in Turkey, resulting in the shut down of the pipeline. There were no injuries. The response to accident demonstrated the good level of preparedness and effective cooperation among in-country teams in case of emergency response.

[13] This project was referred as BTC 1.2 Expansion in last year report.

The second major accident one was related to severe traffic vehicle accident in Turkey, which resulted in three third party fatalities and the injury of BIL employee who was driving the BIL vehicle. Overall there were 12 traffic vehicle accidents across three countries in 2008.

BTC operations also experienced one DAFWC (Day Away from Work Case), as a result of a slip and fall in Turkey.

A summary of H&S performance during 2008 for Operations activities is presented in Table 10.4 (Leading indictors) & 10.5 (Lagging Indicators).

Table 10.4: BTC Operations H&S Leading Indicators

Operations Inputs	Target	2007 Performance		2008 Performance	
		BP	BIL	BP	BIL
STOP Frequency	3000	4,175	351	3,800	545
SOC Frequency	600	640	39	578	22
Training Hours Frequency	4000	8,786	1,403	8,402	1,349

Table 10.5: BTC Operations H&S Lagging Indicators (Actual)

Operations Outputs	2007 Performance		2008 Performance	
	BP	BIL	BP	BIL
Man-hours	1,260,057	2,635,456	1,565,302	2,328,066
Fatality	0	0	0	3
DAFWC	0	0	0	1
Medical treatment	0	4	3	2
Restricted Work	2	0	0	2
First Aid Case	3	7	4	10
High Potential Incident (HiPo)	0	1	0	0
TVA	8	9	4	8
KM driven	6,471,426	6,064,092	5,344,789	5,989,249
Near miss	34	8	34	13

BP = BP operated section of BTC (Azerbaijan & Georgia) and the BTC Assurance Team in Turkey

11 AUDITS

11.1 INTERNAL REVIEWS

11.1.1 Azerbaijan

Internal environmental inspections, reviews and audits continued to be carried out at both AGIs and on the ROW. A full summary of internal reviews and audits is given in Table 11.1[14].

[14] Note: these are treated separately from environmental monitoring, which is detailed elsewhere in this report.

Table 11.1: Summary of Internal Reviews / Audits, Azerbaijan, 2008

Audit / Review	Auditor	Scope	Findings and / or Recommendations
ISO14001 Health Check Audit	Lead by ERM/ With auditors from other (non Az Pipelines) AzSPU assets	Status of BTC/SCP readiness for pre-certification: April 2008	No major gaps were identified with respect to EMS documentation and implementation of the EMS on site. The audit team concluded that BTC / SCP were adequately prepared to undergo the scheduled ISO 14001 certification audit in May 2008.
Comp-liance against applicable PSA, ESIA, and ESAP HSSE require-ments	Lead by ERM/ With auditors from other (non Az Pipelines) AzSPU assets	Status of BTC/SCP compliance against applicable PSA, ESIA, and ESAP HSSE requirements: April 2008	The compliance status of Azerbaijan Pipelines BTC/SCP operations against HSSE Legal & Other Requirements was reviewed. Out of 41 compliance requirements specified by the protocol, 4 were not compliant, 3 were partially compliant, 28 were compliant and 6 were not applicable. Corrective actions have been implemented wherever practicable.
Subject Matter Expert Audit : Atmos-pheric Emissions	Lead by ERM/ With auditors from other (non Az Pipelines) AzSPU assets	Subject Matter Expert Audit : Atmospheric Emissions: April 2008	A subject matter expert (SME) audit for air emissions demonstrated that responsibilities for monitoring and reporting of emissions were clearly assigned and written procedures existed relating to stack emission and ambient emission monitoring. Ambient air and stack emission monitoring programmes have been designed for BTC/SCP Az in accordance with ESAP requirements. Primary findings related to the need for review of the emission standard for source emission in accordance with the operating conditions. Further findings related to the need for suitable sampling ports at PSA2 generators to allow stack emission monitoring at these facilities. Corrective actions have been implemented wherever practicable.
Regular Environ-mental Inspections	BTC	Regular Environmental Inspections of IPA1, PSA2, Block Valves	Weekly and monthly environmental inspections were carried out at all AGIs throughout 2008. No major issued were identified, and all minor issues are closed out as soon as practicable on an ongoing basis.

11.1.2 Georgia

Environmental inspections and internal audits continued to be carried out at AGIs and along the ROW. A full summary of significant internal reviews and audits is given in Table 11.2.

Table 11.2: Summary of Internal Reviews/Audits, Georgia, 2008

Audit / Review	Auditor	Scope	Findings and / or Recommendations
ISO14001 Health Check Audit	Lead by ERM/ With auditors from other (non Geo Pipelines) AzSPU assets	Status of BTC / SCP readiness for pre-certification: April 2008	No major gaps were identified with respect to EMS documentation and implementation of the EMS on site. The audit team concluded that BTC / SCP Operations EMS is well developed and well prepared for the upcoming ISO14001 Certification audit in May 2008.

Audit / Review	Auditor	Scope	Findings and / or Recommendations
Compliance against applicable PSA, ESIA, and ESAP requirements	Lead by ERM/ With auditors from other (non Geo Pipelines) AzSPU assets	Access compliance status of BTC / SCP against applicable PSA, ESIA, and ESAP requirements: April 2008	The compliance status of Georgia Pipelines BTC/SCP operations against HSSE Legal & Other Requirements was reviewed. Out of 37 compliance requirements specified by the protocol, 10 were not compliant, 25 were compliant and 2 were not applicable. Audit actions were uploaded and implemented through Tr@ction as practicable.
Subject Matter Expert Audit: Atmospheric Emissions	Lead by ERM/ With auditors from other (non Geo Pipelines) AzSPU assets	Subject Matter Expert Audit : Atmospheric Emissions: April 2008	A subject matter expert (SME) audit for air emissions demonstrated that responsibilities for monitoring and reporting of emissions were clearly assigned and written procedures existed relating to stack emission and ambient emission monitoring. Ambient air and stack emission monitoring programmes have been designed for BTC/SCP Georgia in accordance with ESAP requirements. Primary findings related to the need for review of the emission standard for source emissions in accordance with the operating conditions. Further findings related to the need for suitable sampling ports at PSG-1 and PSG-2 generators to allow stack emission monitoring at these facilities. Also the completeness of the ambient air monitoring reports and interpretation of results should be reviewed to include the information specified in the BTC SCP Ambient Air Monitoring Procedure. Audit actions were uploaded and implemented through Tr@ction as practicable.
Regular Environ-mental Inspections	BTC	Regular Environmental Inspections of PSG1 & 2; Area 80; Camps ROW	Fortnightly and monthly environmental inspections were carried out at all AGIs and camps throughout 2008. Identified issued were tracked through inspection checklists, Environmental Action plans and action tracking system tools on ongoing basis.

11.1.3 Turkey

In 2008 audits and monitoring were carried out by BTC and BIL to cover Operations, EIP and CIP. The Operations audits were carried out to assess compliance with E&S commitments in the ESIA and Operations ESAP as well as to assess progress towards the development of the BIL ISO14001 certified ESMS. In addition various third-party facility compliance audits were undertaken to determine if the facilities met project standards and could be used by the Project. CIP and EIP monitoring was undertaken to assess Implementing Partner performance and subsequently identify areas of support. A list of environmental and social audits and reviews is given in Tables 11.3 and 11.4 below.

Table 11.3: Audits/Reviews Conducted by BTC

Audit / Review	Scope	Findings and/or Recommendations
Pre-Lender Audits and Compliance Audits – All facilities and the ROW April, May, October 2008	• To follow up on any previously identified BTC and IEC findings. • Verify closure of these items where appropriate. • Determine the current situation with regards E&S performance on site.	It was recommended to focus and take actions the following areas: Environmental and Social Management Organisation and Resources; ROW Management Organisation and Resources; Continuity of Corrective Action Process (Communication and Tracking) and Coherence of ROW Management; Performance of ISO14001 Environmental Management System Update of Key System Documents; Facility camps; Environmental Emissions Management; Environmental Registers; Oiled Wildlife Response; ROW Patrolling, Monitoring, Maintenance and Documentation; Access Roads; Third Party Crossings; Gendarme Stations.

Audit / Review	Scope	Findings and/or Recommendations
EIP Internal Evaluation – on-going throughout the year	EIP performance and areas for improvement	Reviews identified the project areas which require extended investment and which require exit. Reviews assisted projects to stay focused on the key objectives of projects and revise project activities when necessary to achieve the objectives. It was also recommended for EIP to publicise the outcomes of EIP to a broader audience.
Municipality waste water treatment plants compliance audit - May	Confirm the Sivas Cumhuriyet University WWTP meets project standards to dispose KP611 repair related wastewaters.	The facility was identified to be non-compliant with project standards and the wastewaters were transported to Erzincan Municipality WWTP.

Table 11.4: Audits Conducted by BIL

Audit / Review	Auditee	Scope	Findings and/or Recommendations
Environmen-tal and Social Compliance Audit (Jointly carried out with BTC)	BIL	Same as above	Same as above.
Municipality Landfills Audit	Antakya Municipality	Project environmental standards	The punchlist items determined previously according to the Project environmental standards were almost completed.
Municipality waste water treatment plants compliance audit	Kayseri and Osmaniye municipality WWTPs	Project environmental standards	Kayseri and Osmaniye Municipality WWTPs were compliant with Project environmental standards.
Quarry Sites Audit	Canogullari quarry (Adana)	Project environmental standards	Compliant with the Project environmental standards.
Ship waste Handling Facility Options Review	Botaş Iraq-Turkey Pipeline Distry Balast Treatment Facility	Project environmental standards	The discharge analysis previously conducted by Botaş contracted monitoring company demonstrated potential compliance with project standards.

11.1.4 Cross Country Internal Reviews

An internal audit of the Oil Spill Response contractors and their bases was carried out across the three countries (Azerbaijan, Georgia and Turkey) during March and April 2008. Action items from the audits were agreed with management and entered into tr@ction. A summary is presented in Table 11.2.

Table 11.2: Cross-country Monitoring

Audit / Review	Auditor	Auditee	Scope	Findings and/or Recommendations
OSR Audit	Team comprising BP staff from each country & BP consultant	Oil Spill Response contractors	Focusing on reviewing the OSR capabilities at the BTC OSR bases across the three countries. The review included inspecting each oil spill response base, reviewing documentation and interviewing OSR personnel as required, witnessing response exercises and ascertaining the status of overall OSR preparedness.	A number of action items were identified and prioritised. Management decided which items required to be followed up and closed out; these were put into tr@ction and progress is monitored at the CAM/OSR contractor's meetings.

11.2 EXTERNAL REVIEWS

11.2.1 ISO 14001 Certification

BTC/SCP pipelines obtained certification against the international environmental management system standard ISO 14001 following the Certification Audit in May 2008. The certification body was Moody International.

11.2.2 Independent Environmental Consultants

The IEC audit was conducted in June 2008. The IEC visit reports document non-compliances against the ESAP and assigns them a level of importance (Level I, II or III, with III being the most significant). The IEC also verifies closure of BTC's responses to non-compliances as part of subsequent monitoring visits.

A total of 4 non-compliances were raised during the June audit. Two non-compliances (1 Level I and 1 Level II) were raised in Azerbaijan, one Level I was raised in Georgia, and 1 Level I in Turkey. Appendix 3 contains details of these non-compliances along with a summary of actions taken to resolve the issue. Full reports are given on www.bp.com/caspian.

11.2.3 Social and Resettlement Action Plan (SRAP) Panel

SRAP monitoring aims to provide practical guidance and advice to the Projects' management team on the land acquisition and resettlement process and the management of other social issues, as well as monitoring compliance.

A visit was carried out in March/April 2008. The report from this visit is available on www.bp.com/caspian. The results of the SRAP monitoring are given in Appendix 4.

11.2.4 Azerbaijan Social Review Committee

In 2008 Azerbaijan SPU continued its cooperation with Azerbaijan Social Review Commission, an independent external monitoring panel dedicated to provide advice and challenge to BP's social performance in Azerbaijan. In April 2008 BP hosted the third BP-ASRC session which discussed a number of issues related to our performance. Prior to the meeting ASRC members visited Ganja region and had a chance to visit some communities and individuals that benefited from our Community Investment Programs. The joint session was followed by the II ASRC report to BP containing a number of observations and recommendations. This report and the Company's response were posted on the public website - www.bp.com/caspian. In 2009 the intent is to continue our cooperation with ASRC.

11.2.5 Polaris

There was no external audit on the Oil Spill Response Plans by Polaris in 2008. The latest audit took place in June 2007. Next external audit is planned to be carried out in 2009.

In 2007 Polaris audited the Project to assess compliance with requirements of the Oil Spill Response Plans on behalf of the Lenders. This resulted in a range of follow-up actions, many of which were undertaken in 2008. Details are given in Appendix 5.

APPENDIX 1

Annex J of the Construction ESAP – Outline of Project Environmental and Social Monitoring Annual Report[15]

Each annual report will address each of the topics listed below for BTC Co. activities conducted in Azerbaijan, Georgia and Turkey.

1 EXECUTIVE SUMMARY

2 ESIAS / EIA AND PERMITTING

2.1 SUMMARY OF ANY MATERIAL MODIFICATIONS TO THE AZERBAIJANI, GEORGIAN AND TURKISH ESIAS DURING THE YEAR.

2.2 SUMMARY OF MATERIAL PERMITS ISSUED DURING THE YEAR AND ANY APPLICABLE CONDITIONS.

2.3 UPDATE ON STATUS OF PROJECT STATE SPECIFIC REQUIREMENTS FOR FURTHER WORK UNDER THE ESIAS OR PERMITS.

3 CHANGES

3.1 DESCRIPTION OF ANY CHANGES TO AN ESIA DURING THE PERIOD TO REFLECT A CLASS I, II OR III CHANGE.

3.2 SUMMARY OF THE TYPE OF CLASS I CHANGES IMPLEMENTED DURING THE PERIOD, OR A CONFIRMATION OF NO SUCH CHANGE.

3.3 LIST OF ALL CLASS II CHANGES NOTIFIED DURING THE PERIOD, OR CONFIRMATION OF NO SUCH CHANGES.

3.4 SUMMARY OF ALL CLASS III CHANGES DURING THE PERIOD, OR CONFIRMATION OF NO SUCH CHANGES.

3.5 UPDATE ON CONSTRUCTION STATUS IN A CHANGE AREA INCLUDING DESCRIPTION OF ANY IMPACTS OR MITIGATION MEASURES.

3.6 DESCRIPTION OF ANY MATERIAL AMENDMENT, SUPPLEMENT, REPLACEMENT OR MATERIAL MODIFICATION TO AN ESIA, THIS ESAP, THE RAP, THE ESMS, OR ANY OSRP.

4 COMPLIANCE WITH ENVIRONMENTAL STANDARDS AND APPLICABLE ENVIRONMENTAL LAW

4.1 SUMMARY OF ANY NOTICES OF NON-COMPLIANCE, REMEDIAL ACTION, ANY FINES OR PENALTIES PAID AND FINAL DISPOSITION OF ANY REGULATORY PROCEEDINGS.

4.2 SUMMARY OF AIR EMISSIONS.

4.3 SUMMARY OF ENVIRONMENTAL DISCHARGES.

4.4 STATEMENT INDICATING WHETHER BTC CO. AND ITS AGENTS HAVE COMPLIED IN THE DEVELOPMENT, CONSTRUCTION AND OPERATION OF THE BTC PROJECT WITH THIS ESAP, APPLICABLE ENVIRONMENTAL LAWS AND APPLICABLE LENDER ENVIRONMENTAL AND SOCIAL POLICIES AND GUIDELINES IN ALL MATERIAL RESPECTS AND SUMMARY OF ANY (I) MATERIAL NON-COMPLIANCE AND THE STEPS BEING TAKEN TO REMEDY IT AND (II) MATERIAL MODIFICATIONS OF ESIAS, PLANS OR PROGRAMMES MATERIALLY IN CONTRAVENTION OF THE OPERATIONAL POLICIES AND DIRECTIVES LISTED IN THIS ESAP.

4.5 UPDATE ON SIGNIFICANT CHANGES IN APPLICABLE LAW, IF ANY.

5 OIL SPILL RESPONSE

5.1 SUMMARY OF OSRPS COMPLETED, UPDATED OR AMENDED DURING YEAR (AS DESCRIBED IN THIS ESAP).

5.2 SPILL SUMMARIES (AZERBAIJAN, GEORGIA AND TURKEY).

5.3 SPILL RESPONSE AND REMEDIATION SUMMARIES.

5.4 SUMMARY OF MATERIAL MODIFICATIONS TO THE OSRPS DESCRIBED IN THIS ESAP.

6 CIP AND EIP PROGRAMMING

6.1 SUMMARY OF PROGRAMMING FOR THE PAST YEAR.

6.1 COMPARISON OF ACTUAL TOTAL EXPENDITURES AND BUDGETED TOTAL EXPENDITURES.

6.3 DESCRIPTION OF EXPECTED BUDGET AND PROGRAMMING FOR THE COMING YEAR.

7 ENVIRONMENTAL AND SOCIAL MONITORING PROGRAMME

7.1 SUMMARY OF ESMS MONITORING COMMITMENTS COMPLETED DURING THE YEAR, INCLUDING SUMMARY OF RESULTS, COMPARISON OF ENVIRONMENTAL PERFORMANCE TO APPLICABLE ENVIRONMENTAL STANDARDS AND SUMMARY OF PERFORMANCE AGAINST KPIS.

7.2 SUMMARY OF ENVIRONMENTAL AND SOCIAL TRAINING.

8 PROJECT COMMUNICATION

8.1 UPDATE OF ONGOING COMMUNICATION WITH EXTERNAL STAKEHOLDERS.

8.2 UPDATE OF COMMUNITY LIAISON ACTIVITIES.

9 SUMMARY OF RESULTS OF RAP MONITORING

10 SUMMARY OF KEY HEALTH AND SAFETY STATISTICS

10.1 DAYS AWAY FROM WORK CASES.

10.2 INJURIES.

10.3 FATALITIES.

11 AUDITS

11.1 SUMMARY OF THE RESULTS OF BTC CO. AND BOTAŞ'S INTERNAL ENVIRONMENTAL AND SOCIAL AUDIT PROGRAMMES.

[15] Following completion of construction, the annual report will not cover items that are relevant only to construction. In addition, if matters are covered in the Operations ESAP that are not reflected in the contents for the annual report, this Annex will be amended as appropriate to cover these matters.

Annex H of the Operations ESAP – Outline of Project Environmental and Social Monitoring Annual Report

Each annual report will address each of the topics listed below for BTC activities conducted in Azerbaijan, Georgia and Turkey.

1 EXECUTIVE SUMMARY

2 ESIAS / EIA AND PERMITTING

2.1 SUMMARY OF ANY MATERIAL MODIFICATIONS TO THE AZERBAIJANI, GEORGIAN AND TURKISH ESIAS DURING THE YEAR.

2.2 SUMMARY OF MATERIAL PERMITS ISSUED DURING THE YEAR AND ANY APPLICABLE CONDITIONS.

2.3 UPDATE ON STATUS OF PROJECT STATE SPECIFIC REQUIREMENTS FOR FURTHER WORK UNDER THE ESIAS OR PERMITS.

3 CHANGES

3.1 DESCRIPTION OF ANY CHANGES TO AN ESIA DURING THE PERIOD TO REFLECT A CLASS I, II OR III CHANGE.

3.2 SUMMARY OF THE TYPE OF CLASS I CHANGES IMPLEMENTED DURING THE PERIOD, OR A CONFIRMATION OF NO SUCH CHANGE.

3.3 LIST OF ALL CLASS II CHANGES NOTIFIED DURING THE PERIOD, OR CONFIRMATION OF NO SUCH CHANGES.

3.4 SUMMARY OF ALL CLASS III CHANGES DURING THE PERIOD, OR CONFIRMATION OF NO SUCH CHANGES.

3.5 DESCRIPTION OF ANY MATERIAL AMENDMENT, SUPPLEMENT, REPLACEMENT OR MATERIAL MODIFICATION TO AN ESIA, THIS ESAP, THE RAP, THE ESMS, OR ANY OSRP.

4 COMPLIANCE WITH ENVIRONMENTAL STANDARDS AND APPLICABLE ENVIRONMENTAL LAW

4.1 SUMMARY OF ANY NOTICES OF NON-COMPLIANCE, REMEDIAL ACTION, ANY FINES OR PENALTIES PAID AND FINAL DISPOSITION OF ANY REGULATORY PROCEEDINGS.

4.2 SUMMARY OF AIR EMISSIONS.

4.3 SUMMARY OF ENVIRONMENTAL DISCHARGES.

4.4 STATEMENT INDICATING WHETHER BTC CO. AND ITS AGENTS HAVE COMPLIED IN THE DEVELOPMENT, CONSTRUCTION AND OPERATION OF THE BTC PROJECT WITH THIS ESAP, APPLICABLE ENVIRONMENTAL LAWS AND APPLICABLE LENDER ENVIRONMENTAL AND SOCIAL POLICIES AND GUIDELINES IN ALL MATERIAL RESPECTS AND SUMMARY OF ANY (I) MATERIAL NON-COMPLIANCE AND THE STEPS BEING TAKEN TO REMEDY IT AND (II) MATERIAL MODIFICATIONS OF ESIAS, PLANS OR PROGRAMMES MATERIALLY IN CONTRAVENTION OF THE OPERATIONAL POLICIES AND DIRECTIVES LISTED IN THIS ESAP.

4.5 UPDATE ON SIGNIFICANT CHANGES IN APPLICABLE LAW, IF ANY.

5 OIL SPILL RESPONSE

5.1 SUMMARY OF OSRPS COMPLETED, UPDATED OR AMENDED DURING YEAR (AS DESCRIBED IN THIS ESAP).

5.2 SPILL SUMMARIES (AZERBAIJAN, GEORGIA AND TURKEY).

5.3 SPILL RESPONSE AND REMEDIATION SUMMARIES.

5.4 SUMMARY OF MATERIAL MODIFICATIONS TO THE OSRPS DESCRIBED IN THIS ESAP.

6 ADDITIONALITY PROGRAMMING

6.1 SUMMARY OF PROGRAMMING FOR THE PAST YEAR.

6.2 COMPARISON OF ACTUAL TOTAL EXPENDITURES AND BUDGETED TOTAL EXPENDITURES.

6.3 DESCRIPTION OF EXPECTED BUDGET AND PROGRAMMING FOR THE COMING YEAR.

7 ENVIRONMENTAL AND SOCIAL MONITORING PROGRAMME

7.1 SUMMARY OF ESMS MONITORING COMMITMENTS COMPLETED DURING THE YEAR, INCLUDING SUMMARY OF RESULTS, COMPARISON OF ENVIRONMENTAL PERFORMANCE TO APPLICABLE ENVIRONMENTAL STANDARDS AND SUMMARY OF PERFORMANCE AGAINST KPIS.

7.2 SUMMARY OF ENVIRONMENTAL AND SOCIAL TRAINING.

8 PROJECT COMMUNICATION

8.1 UPDATE OF ONGOING COMMUNICATION WITH EXTERNAL STAKEHOLDERS.

8.2 UPDATE OF COMMUNITY LIAISON ACTIVITIES.

9 SUMMARY OF RESULTS OF RAP MONITORING (AS APPLICABLE)

10 SUMMARY OF KEY HEALTH AND SAFETY STATISTICS

10.1 DAYS AWAY FROM WORK CASES.

10.2 INJURIES.

10.3 FATALITIES.

11 AUDITS

11.1 SUMMARY OF THE RESULTS OF BTC CO. AND BIL'S INTERNAL ENVIRONMENTAL AND SOCIAL AUDIT PROGRAMMES.

APPENDIX 2: ENVIRONMENTAL MONITORING RESULTS

APPENDIX 2.1: AZERBAIJAN

Please read this section in conjunction with the commentary in Section 4.2.1.

Appendix 2.1a – Ambient Air Quality

Pollutant	Standard	Units	Averaging Period
NO_2	40 (Annual average will reduce by 2 µg/m^3 every year, to reach 40 µg/m^3 by 1 January 2010)	µg/m^3	Annual mean
SO_2	20	µg/m^3	Annual mean
Benzene	5 (Annual average will reduce by 1 µg/m^3 every year from 2006, to reach 5 µg/m^3 by 1 January 2010)	µg/m^3	Annual mean
PM_{10}	20 (30 on 1 January 2005, reducing every 12 months thereafter by equal annual percentages to reach 20 by 1 January 2010)	µg/m^3	Annual mean

PSA2:

ID	Dec2007 Jan2008	Feb-Mar 2008	Apr-May 2008	Jun-July 2008	Aug-Sep 2008	Oct-Nov 2008	Annual Mean	Pollutant	Units
PSA 2 AQ 1p	8.2	9.0	*	*	*	*	8.3	NO_2	µg/m^3
PSA 2 AQ 2p	7.3	7.1	*	*	*	*	7.63	NO_2	µg/m^3
PSA 2 AQ 3p	8.8	8.1	3.0	6.3	8.6	8.6	8.5	NO_2	µg/m^3
PSA 2 AQ 4p	16	17	*	*	*	*	14.3	NO_2	µg/m^3
PSA 2 AQ 5p	*	*	3.0	3.7	5.7	8.5	5.2	NO_2	µg/m^3
PSA 2 AQ 6p	*	*	6.6	10	6.2	9.8	8.15	NO_2	µg/m^3
PSA 2 AQ 7p	*	*	3.7	6.2	5.1	8.0	5.75	NO_2	µg/m^3
PSA 2 AQ 8p	*	*	5.2	6.1	12	6.9	7.55	NO_2	µg/m^3

ID	Dec2007 Jan2008	Feb-Mar 2008	Apr-May 2008	Jun-July 2008	Aug-Sep 2008	Oct-Nov 2008	Annual Mean	Pollutant	Units
PSA 2 AQ 1p	5.5	1.1	31	*	*	*	*	SO_2	µg/m^3
PSA 2 AQ 2p	5.4	<0.79	1.6	*	*	*	*	SO_2	µg/m^3
PSA 2 AQ 3p	24	33	<0.79	<0.8	38	<0.79	2.5	SO_2	µg/m^3
PSA 2 AQ 4p	1.3	12	37	*	*	*	*	SO_2	µg/m^3
PSA 2 AQ 5p	*	*	*	8.6	1.2	<0.79	<0.79	SO_2	µg/m^3
PSA 2 AQ 6p	*	*	*	1.2	1.0	<0.79	1.4	SO_2	µg/m^3
PSA 2 AQ 7p	*	*	*	<0.8	<0.8	5.8	2.9	SO_2	µg/m^3
PSA 2 AQ 8p	*	*	*	32	45	<0.79	0.96	SO_2	µg/m^3

ID	Dec2007 Jan2008	Feb-Mar 2008	Apr-May 2008	Jun-July 2008	Aug-Sep 2008	Oct-Nov 2008	Annual Mean	Pollutant	Units
PSA 2 AQ 1p	0.81	1.7	1.3	*	*	*	*	Benzene	µg/m^3
PSA 2 AQ 2p	0.90	1.7	1.3	*	*	*	*	Benzene	µg/m^3
PSA 2 AQ 3p	0.93	1.7	1.5	0.72	0.50	0.61	0.95	Benzene	µg/m^3
PSA 2 AQ 4p	0.91	1.7	1.2	*	*	*	*	Benzene	µg/m^3
PSA 2 AQ 5p	*	*	*	0.63	0.55	0.72	0.97	Benzene	µg/m^3
PSA 2 AQ 6p	*	*	*	0.80	0.54	0.69	1.2	Benzene	µg/m^3
PSA 2 AQ 7p	*	*	*	0.63	0.41	0.66	0.97	Benzene	µg/m^3
PSA 2 AQ 8p	*	*	*	0.70	0.53	0.86	1.2	Benzene	µg/m^3

NOTES: Baseline for PSA2 shown in Appendix 2.1a of 2005 Annual Report

* - indicates that the sampling location has changed

Appendix 2.1b – Stack Emissions Monitoring

Emission Stream Sources	Pollutant	Standard	Units
MOL Turbine	NOx	70-75 at 15% O2, dry	mg/Nm^3
	CO	N/A	mg/Nm^3
	SO_2	35	mg/Nm^3
	PM_{10}	5	mg/Nm^3
Generators	NOx	2000	mg/Nm^3
	CO	650	mg/Nm^3
	SO_2	1700	mg/Nm^3
	PM_{10}	130	mg/Nm^3

PSA 2

Equipment	Date tested	Load at the time of test Kwth %	Fuel	Concentration at reference conditions				Mass emissions			
				NOx	CO	SO_2	PM	NOx	CO	SO_2	PM
				mg/Nm^3	*mg/Nm^3*	*mg/Nm^3*	*mg/Nm^3*	*g/h*	*g/h*	*g/h*	*g/h*
PSA-2 MOL Turbine No 4	09.05.08	86.06%	Gas	118.2	1246.7	0.0	6.2	6030.1	63611.4	0.0	451.3
PSA-2 Generator A	08.05.08	31%	Diesel	442.2	188.3	4.5	64.7	1082.9	461.1	10.5	216.7
PSA-2 Generator B	07.05.08	52%	Diesel	480.9	159.5	0.0	64.7	1307.5	433.5	0.0	234.6
PSA-2 Generator C	08.05.08	55%	Diesel	504.2	171.8	0.0	64.7	1317.1	448.7	0.0	227.0
IPA-1 Generator A	10.05.08	94%	Diesel	1041.6	104.2	0.0	62.0	2940.2	264.0	0.0	256.1
IPA-1 Generator B	10.05.08	99%	Diesel	1069.1	104.2	0.0	62.0	2882.5	281.0	0.0	248.2
PSA-2 Generator A	28.10.08	55%	Diesel	506.6	183.2	0.0	62.0	3574.9	1292.9	0.0	616.4
PSA-2 Generator B	28.10.08	55%	Diesel	503.7	227.7	0.0	64.7	2149.5	971.6	0.0	371.7
PSA-2 Generator C	29.10.08	62%	Diesel	538.4	151.8	0.0	64.7	2675.6	754.2	0.0	430.5
IPA-1 Generator A	31.10.08	47%	Diesel	1167.0	102.6	0.0	62.0	668.0	58.7	0.0	51.7
IPA-1 Generator B	31.10.08	48%	Diesel	1138.8	116.6	0.0	62.0	637.1	65.2	0.0	51.1

NOTE: Figures in red indicate non-compliance with project standards

Appendix 2.1c – Environmental Noise

	Standard	Units	Period
PSA2 & IPA1 & Block Valves	55	dB (A)	Daytime
	45	dB (A)	Night-time

PSA2

ID	Readings	Units	Date	Duration	Comments
PSA 2 NM 1p	41.6	dB (A)	Sep-2008	5 min	daytime
PSA 2 NM 2p	39.5	dB (A)	Sep-2008	5 min	daytime

IPA-1

ID	Readings	Units	Date	Duration	Comments
NM 1p	32.8	dB (A)	Sep-2008	5 min	daytime
NM 2p	43.1	dB (A)	Sep-2008	5 min	daytime
NM 3p	39.4	dB (A)	Sep-2008	5 min	daytime

Block Valves

ID	Readings	Units	Date	Duration	Comments
AB-2 NM 1p	39.6	dB (A)	Oct-2008	5 min	daytime
AB-3 NM 1p	32.4	dB(A)	Oct-2008	5 min	daytime
AB-4 NM 1p	43.9	dB (A)	Oct-2008	5 min	daytime
AB-5 NM 1p	30.1	dB(A)	Oct-2008	5min	daytime
AB-6 NM 1p	32.5	dB(A)	Oct-2008	5 min	daytime
AB-7 NM 1p	41.0	dB(A)	Oct-2008	5 min	daytime
AB-8 NM 1p	39.8	dB(A)	Oct-2008	5 min	daytime
AB-10 NM 1p	42.8	dB(A)	Oct-2008	5min	daytime
AB-11 NM 1p	44.8	dB(A)	Oct-2008	5min	daytime
AB-12 NM 1p	44.7	dB(A)	Oct-2008	5min	daytime
AB-13 NM 1p	40.2	dB(A)	Jan-2008	5min	daytime
AB-13 NM 1p	46.3	dB (A)	Oct-2008	5 min	daytime
AB-13 NM 1p	43.6	dB (A)	Dec-2008	5 min	daytime
AB-14 NM 1p	40.1	dB (A)	Oct-2008	5 min	daytime
AB-15 NM 1p	34.1	dB (A)	Oct-2008	5 min	daytime
AB-16 NM 1p	39.5	dB (A)	Oct-2008	5 min	daytime
AB-17 NM 1p	39.5	dB (A)	Oct-2008	5 min	daytime
AB-18 NM 1p	42.8	dB (A)	Oct-2008	5 min	daytime
AB-19 NM 1p	47.3	dB (A)	Oct-2008	5 min	daytime
AB-21 NM 1p	36.8	dB (A)	Oct-2008	5 min	daytime
AB-22 NM 1p	37.5	dB (A)	Oct-2008	5 min	daytime

NOTE: Baseline shown in Appendix 2.1b of 2005 Annual Report
AC-1; AC-9; AC-20 were not monitored as these are check valves

Appendix 2.1d – Effluent Discharge Monitoring Programme

Parameter	Standard	Units
Total coliform bacteria (per 100ml)	<400	MPN/100ml
pH	6-9	
Total residual chlorine	0.2	mg/l
BOD	25	mg/l
COD	125	mg/l
Total suspended solids	35	mg/l
Ammonia NH_4	10	mg/l
Total Nitrogen	15	mg/l
Phenols	0.5	mg/l
Total Phosphorus	2.0	mg/l
Sulphides	1.0	mg/l
Oil and grease	10	mg/l

Parameter	Standard	Units
Ag	0.5	mg/l
As	0.1	mg/l
Cd	0.1	mg/l
Cr (total)	0.5	mg/l
Cu	0.5	mg/l
Fe	3.5	mg/l
Pb	0.1	mg/l
Hg	0.01	mg/l
Ni	0.5	mg/l
Se	0.1	mg/l
Zn	2.0	mg/l

PSA-2 (Sample Location – PSA-2 Retention Pond)

Parameter	Units	Date							
		03-Mar-08	16-Apr-08	16-Jun-08	01-Juy-08	15-Aug-08	01-Sep-08	10-Nov-08	25-Dec-08
Total coliform bacteria	per 100ml	2.2	16	1600	160	160	920	$3x10^3$	170
pH	-	8.3	7.8	7.85	9.59	10.48	10.09	8.59	8.13
Total residual chlorine	mg/l	0.1	0.02	0.02	0.02	0.02	0.02	0.02	0.02
COD	mg/l	70	57	164	64	119	94	51	72
Total suspended solids	mg/l	22	2	46	4	10	0	2	0
Ammonia NH4	mg/l	0.08	0.04	0.09	0.1	0.06	0.18	6.4	7.1
Total Nitrogen	mg/l	3.7	2.3	4.85	3.9	4.8	1.5	10.3	14
Total Phosphorus	mg/l	0.7	0.01	0.5	0.23	0.4	0.2	2.02	1.5
Sulpphides	mg/l	24	5	0.084	0.019	0.037	0.004	0.024	0.059
Oil and grease	mg/l	5	5	-	NA	5	5	5	6.3
Cd	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Cr (total)	mg/l	-	-	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03
Cu	mg/l	<0.04	<0.04	<0.04	<0.04	0.25	<0.04	<0.04	<0.04
Fe	mg/l	0.15	0.03	0.09	0.07	0.04	0.03	0.07	0.16
Pb	mg/l	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ni	mg/l	<0.007	<0.007	<0.007	<0.007	0.013	<0.007	<0.007	0.012
Zn	mg/l	0.05	0.05	0.01	0.06	0.07	0.07	0.08	0.04

PSA-2 (Sample Location – PSA-2 Reed Beds)

Parameter	Units	Date															
		29-Jul-08	31-Jul-08	04-Aug-08	12-Aug-08	14-Aug-08	16-Aug-08	18-Aug-08	26-Aug-08	30-Aug-08	01-Sep-08	10-Sep-08	12-Sep-08	14-Sep-08	24-Sep-08	26-Sep-08	29-Sep-08
Total coliform bacteria	per 100ml	9,200	160	22	220	92	16	220	160	510	220	1600	160	510	160	92	16
pH	-	8.19	9.25	8.19	8.11	8.6	9.16	9.15	8.5	8.34	7.98	8.64	8.54	8.59	8.15	8.11	8.19
Total residual chlorine	mg/l	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
COD	mg/l	25	33	22	14	24	16	40	33	25	24	12	16	91	0	0	27
Total suspended solids	mg/l	1	10	1	3	0	1	5	0	3	2	0	0	10	2	0	0
Ammonia NH4	mg/l	5.65	0.6	1.44	0.68	0.35	0.17	0.3	0.25	0.37	0.16	0.18	0.09	0.16	0.23	0.18	0.17
Total Nitrogen	mg/l	5.7	8.3	5	1.7	<0.5	1.1	<0.5	0.9	1.4	1.1	0.8	-	1.6	0.6	1	2.1
Total Phosphorus	mg/l	0.8	1.1	1	1	1.03	1.3	1.4	0.57	0.62	0.31	0.2	0.18	0.16	0.16	0.12	0.16
Turbidity	FNU	1.1	1.2	0.73	0.6	0.6	1.7	2	1.3	1.7	1.2	1.15	3.4	2.87	0.62	0.53	0.83
Conductivity	mS/cm	0.11	0.15	0.16	0.15	0.16	0.16	0.16	0.15	0.16	0.15	0.19	2.05	2.06	0.19	0.19	0.19

IPA-1 (Sample Location – IPA-1 Retention Pond)

Parameter	Units	Sample ID		
		16-Apr-08	13-May-08	10-Jul-08
Total coliform bacteria (per 100ml)	-	40	$9.3x10^3$	$>2.4x10^3$
pH	-	7.3	8.23	9.8
Total residual chlorine	mg/l	0.02	0.02	0.02
COD	mg/l	40	37	140
Total suspended solids	mg/l	34	28	77
Cyanide (free)	mg/l	-	-	<0.002
Ammonia NH4	mg/l	0.03	0.1	0.04
Total Nitrogen	mg/l	1.75	3	5.5
Phenols	mg/l	-	-	<0.03
Total Phosphorus	mg/l	0.02	0.1	0.18
Sulpphides	mg/l	0.03	0.055	<0.02
Fluorides	mg/l	-	-	0.42

Parameter	Units	Sample ID		
		16-Apr-08	13-May-08	10-Jul-08
Oil and grease	mg/l	<5	<5	<5
Ag	mg/l	-	-	<0.001
As	mg/l	-	-	0.006
Cd	mg/l	<0.02	<0.02	<0.001
Cr (total)	mg/l	-	-	<0.01
Cu	mg/l	<0.04	<0.04	<0.001
Fe	mg/l	0.09	0.12	0.21
Pb	mg/l	<0.2	<0.2	<0.005
Hg	mg/l	-	-	<0.00001
Ni	mg/l	<0.007	<0.007	<0.01
Se	mg/l	-	-	<0.005
Zn	mg/l	0.04	0.03	<0.01

NOTES: NA - Not applicable (only rainwater discharges)
* For Total Nitrogen based on the 91/271/EEC no level limits for less than 10,000 populations if the receiving water is not “sensitive”. No limit below 12ºC when 50 mg/l drinking water nitrate limit applies.
** Phosphorus limit applies only if the receiving water is sensitive and eutrophic and accumulating phosphorus.
Figures in red show non-compliance with project standards

Appendix 2.1e – Groundwater & Surface Water Monitoring Programme

Groundwater Monitoring – Karayazi & Around PSA2

Date of sampling		May-08	May-08	May-08	May-08	May-08	May-08	May-08	May-08	May-08
Parameter	Unit	Kar M1	Kar M2	Kar M3	Kar M5	Kar M7	Kar M8	Kar M10	PSA-2	
									Aran	Yaldili
pH	-	no water	6.9	7.3	7.6	7.3	7.2	7.2	8.8	9.9
Temperature	°C		16.1	16.8	18.2	14.3	13.6	15	26.1	24.7
Conductivity	mS/cm		4.67	3.82	9.4	1.18	3.18	11.9	2.03	0.54
THC	µg/L		<20	<20	<20	<20	<20	<20	<20	<20
PAH	µg/L		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
BTEX	µg/L		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02

Date of sampling		Nov-08	Nov-08	Nov-08	Nov-08	Nov-08	Nov-08	Nov-08	Nov-08	Nov-08
Parameter	Unit	Kar M1	Kar M2	Kar M3	Kar M5	Kar M7	Kar M8	Kar M10	PSA-2	
									Aran	Yaldili
pH	-	No water	7.1	7.4	7.5	No water	7.2	7.2	8.9	9.7
Temperature	°C		16.3	15.7	17.6		17.8	17.9	24.8	23.9
Conductivity	mS/cm		4.49	3.48	9.29		2.8	10.51	1.945	0.532
THC	µg/L		<20	<20	<20		<20	<20	<20	<20
PAH	µg/L		<0.020	<0.2	<0.2		<0.020	<0.020	<0.020	<0.020
BTEX	µg/L		0.01	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
TSS	mg/L		222	10.3	61.2		90.4	270	<2.0	4.3

NOTE: DRO & GRO are not mentioned if PAH and BTEX are within limits

Surface Water Monitoring – Around PSA2

Date of sampling		May-08	May-08	Nov-08	Nov-08
Parameter	Unit	SW1	SW2	SW1	SW2
Total coliform bacteria (per 100ml)	per 100ml	$1.5x10^3$	$1.4x10^3$	$3.2 x10^3$	$3.0x10^3$
pH	-	7.9	7.8	8	7.9
BOD	mg/l	<1	<1	1.2	1.2
COD	mg/l	9.2	12	<4	6.5
Total suspended solids	mg/l	7.3	15	19.1	3.1
Ammonia NH4	mg/l	0.06	0.05	0.01	<0.01
Total Nitrogen	mg/l	3.2	1	<0.5	<0.5
Total Phosphorus	mg/l	0.04	0.05	0.02	0.02
TPH	µg/L	<20	<20	<20	<20
PAHs (sum of 4)	µg/L	<0.01	<0.01	0.01	0.01
Benzene	µg/L	<0.02	<0.02	<2.0	<1.0
Toluene	µg/L	<0.02	<0.02	<2.0	<1.0
Ethylbenzene	µg/L	<0.02	<0.02	<2.0	<1.0
o-Xylenes	µg/L	<0.02	<0.02	<2.0	<1.0

Surface Water Monitoring – Around IPA1

Date of sampling		May-08	May-08	Nov-08	Nov-08
Parameter	Unit	SW1	SW2	SW1	SW2
Total coliform bacteria (per 100ml)	per 100ml	$4.4x10^3$	$6.3x10^3$	$1.6 x10^3$	$1.0 x10^3$
pH	-	7.7	7.8	8	8.3
BOD	mg/l	1.3	2.7	1.9	58
COD	mg/l	17	16	4.2	22
Total suspended solids	mg/l	3.2	12	3.8	87.4
Ammonia NH4	mg/l	0.02	0.03	0.02	0.01
Total Nitrogen	mg/l	<0.5	<0.5	<0.5	1.5
Total Phosphorus	mg/l	0.02	0.02	0.01	0.195
TPH	µg/L	26	89	<20	41
PAHs (sum of 4)	µg/L	<0.01	0.02	<0.01	0.02
Benzene	µg/L	<0.020	<0.020	<2.0	<0.020
Toluene	µg/L	<0.020	<0.020	<2.0	<0.020
Ethylbenzene	µg/L	<0.020	<0.020	<2.0	<0.020
o-Xylenes	µg/L	<0.020	<0.020	<2.0	<0.020

NOTE: SW1 - Upstream sampling point; SW2 - Downstream sampling point

Appendix 2.1f – Waste

BTC Waste Volumes: Summary – 2008

	Unit	Value
Hazardous Wastes		
Oily Solid Waste (oily rags, filters, absorbents, polyethylene)	tonne	4,441
Oily water	m^3	163
Oil and diesel (used)	m^3	48.14
Sewage wastes (raw)	m^3	7,182
Sewage sludge	m^3	186
Contaminated drums	item	148
Contaminated cans	item	19
Antifreeze	m^3	0.83
Chemicals	m^3	16
Wax	m^3	0.8
Non-hazardous wastes		
Fluorescent tubes	tonne	0.05
Insulation material	tonne	0.4
Construction waste	m^3	20
Pig discs	tonne	1,631
Aerosol cans	m^3	0
Non-recyclable domestic wastes	tonne	46
Paper	tonne	4,478
Wood	tonne	7,126
Metal	tonne	5,182

APPENDIX 2.2: GEORGIA

Please read this section in conjunction with the commentary in Section 4.2.2.

Appendix 2.2a – Ambient Air Quality

Pollutant	Standard	Units	Averaging Period
NO_2	40 (Annual average will reduce by 2 µg/m^3 every year, to reach 40 µg/m^3 by 1 January 2010)	µg/m^3	Annual mean
SO_2	20*	µg/m^3	Annual mean
Benzene	5 (Annual average will reduce by 1 µg/m^3 every year from 2006, to reach 5 µg/m^3 by 1 January 2010)	µg/m^3	Annual mean
PM_{10}	20 (30 on 1 January 2005, reducing every 12 months thereafter by equal annual percentages to reach 20 by 1 January 2010)**	µg/m^3	Annual mean

* For the protection of vegetation and ecosystems

** No PM 10 was measured in 2008 due to the system running on natural gas

ID	Apr-2008	Jun-2008	Aug-2008	Oct-2008	Dec-2008	Pollutant	Units
PSG 1-1	4	0.6	0.4	0.4	0.6	NOx	µg/m^3
PSG 1-2	6	0.5	0.4	0.5	0.7	NOx	µg/m^3
PSG 1-3	9	0.4	0.3	0.3	0.6	NOx	µg/m^3
PSG 1-4	6	0.5	0.4	0.4	0.7	NOx	µg/m^3
PSG 1-5	4	0.4	N/A*	N/A*	0.7	NOx	µg/m^3
PSG 2-1	2	0.2	0.1	0.2	0.2	NOx	µg/m^3
PSG 2-2	1	0.1	0.1	0.2	0.2	NOx	µg/m^3
PSG 2-3	1	0.1	0.1	0.1	0.1	NOx	µg/m^3
PSG 2-4	1	0.2	0.3	0.2	0.3	NOx	µg/m^3
PSG 2-5	1	0.1	0.1	0.1	0.2	NOx	µg/m^3

N/A* - Tubes displaced by external party

ID	Apr-2008	Jun-2008	Aug-2008	Oct-2008	Dec-2008	Pollutant	Units
PSG 1-1	3	1.3	1.4	1.5	0.5	SOx	µg/m^3
PSG 1-2	4	0.9	1.1	1.4	0.5	SOx	µg/m^3
PSG 1-3	1	1.5	1.1	1.6	0.7	SOx	µg/m^3
PSG 1-4	11	0.7	1.1	1.4	0.5	SOx	µg/m^3
PSG 1-5	4	0.6	N/A*	N/A*	4.0	SOx	µg/m^3
PSG 2-1	1	0.5	0.7	0.9	0.4	SOx	µg/m^3
PSG 2-2	1	0.5	0.9	1.1	0.4	SOx	µg/m^3
PSG 2-3	1	0.2	0.9	1.2	0.5	SOx	µg/m^3
PSG 2-4	1	0.4	0.8	0.9	0.4	SOx	µg/m^3
PSG 2-5	1	0.5	N/A*	1.0	0.5	SOx	µg/m^3

N/A* - Tubes displaced by external party

Benzene	Apr-2008	Jun-2008	Aug-2008	Oct-2008	Dec-2008	Pollutant	Units
PSG 1-1	0.8	0.7	6.2	0.3	0.8	Benzene	µg/m^3
PSG 1-2	0.8	0.5	0.5	0.4	0.9	Benzene	µg/m^3
PSG 1-3	0.5	1.3	0.4	0.5	0.6	Benzene	µg/m^3
PSG 1-4	0.5	0.6	0.3	0.7	0.6	Benzene	µg/m^3
PSG 1-5	0.7	1.1	N/A*	0.1	0.6	Benzene	µg/m^3
PSG 2-1	0.3	0.3	0.2	0.3	0.2	Benzene	µg/m^3
PSG 2-2	0.9	0.9	0.3	0.4		Benzene	µg/m^3
PSG 2-3	0.5	0.4	0.3	0.2	0.4	Benzene	µg/m^3
PSG 2-4	0.5	0.8	0.3	0.2	0.3	Benzene	µg/m^3
PSG 2-5	0.5	0.4	0.3	0.4	0.5	Benzene	µg/m^3

N/A* - Tubes displaced by external party

Appendix 2.2b – Stack Emissions

Emission Stream Sources	Pollutant	Standard	Units
MOL Turbine	NOx	70-75 at 15% O2, dry	mg/Nm^3
	CO	N/A	mg/Nm^3
	SO_2	35	mg/Nm^3
	PM_{10}	5	mg/Nm^3
Generators	NOx	2000	mg/Nm^3
	CO	650	mg/Nm^3
	SO_2	1700	mg/Nm^3
	PM_{10}	130	mg/Nm^3

June 2008 – Generators at PSG 1 and PSG 2 after sample ports modification completion

Equipment	Date	Load	Conc at ref conditions				Mass emissions				ESAP Standards				MoE Limits			
			NOx	CO	SO_2	PM	NOx	CO	SO_2	PM	NOx	CO	SO_2	PM	NOx	CO	SO_2	PM
			mg/m^3				*g/s*				*mg/m^3*				*g/s*			
PSG 1																		
Generator 1	25/06		1474.36	614.76	63.69	62.00	0.44	0.22	0.02	0.11	2000	650	1700	130	3.6	1.17	0.333	0.234
Generator 2	25/06		1467.05	670.06	0.00	62.00	0.44	0.24	0.00	0.11	2000	650	1700	130	3.6	1.17	0.333	0.234
Generator 3	25/06		1450.73	608.61	0.00	62.00	0.44	0.22	0.00	0.11	2000	650	1700	130	3.6	1.17	0.333	0.234
PSG 2																		
Generator 1	26/06		1315.99	773.77	0.00	62.00	0.40	0.28	0.00	0.11	2000	650	1700	130	3.6	1.17	0.333	0.234
Generator 2	26/06		1339.12	708.74	0.00	62.00	0.40	0.25	0.00	0.11	2000	650	1700	130	3.6	1.17	0.333	0.234
Generator 3	26/06		1506.80	624.80	0.00	62.00	0.45	0.22	0.00	0.11	2000	650	1700	130	3.6	1.17	0.333	0.234

NC - Non-Compliance **OK -** Compliance **N/A -** Not Available

November-December 2008 – All equipment at PSG 1 and PSG 2 – Annual monitoring

Equipment	Date	Load	Conc at ref conditions				Mass emissions				ESAP Standards				MoE Limits			
			NOx	CO	SO_2	PM	NOx	CO	SO_2	PM	NOx	CO	SO_2	PM	NOx	CO	SO_2	PM
			mg/m³				*g/s*				*mg/m³*				*g/s*			
PSG 1																		
MOL Turbine 1	12/12	89%	173.33	1034.07	0.41	3.50	2.28	13.59	0.01	0.08	75	N/A	35	5	2.16	1.84	0.14	0.14
MOL Turbine 2	12/25	88%	107.18	1623.70	2.73	3.65	2.19	33.13	0.06	0.13	75	N/A	35	5	2.16	1.84	0.14	0.14
MOL Turbine 3	12/12	89%	185.66	1078.49	0.00	3.62	2.56	14.90	0.00	0.09	75	N/A	35	5	2.16	1.84	0.14	0.14
MOL Turbine 4	12/13	89%	96.04	1977.43	5.64	3.51	1.30	26.72	0.08	0.08	75	N/A	35	5	2.16	1.84	0.14	0.14
MOL Turbine 5	12/13	89%	101.91	1653.52	0.00	3.58	1.46	23.66	0.00	0.09	75	N/A	35	5	2.16	1.84	0.14	0.14
Generator 1	12/9		460.22	217.38	18.60	40.79	0.41	0.23	0.02	0.07	2000	650	1700	130	3.6	1.17	0.333	0.234
Generator 2	12/9		421.92	242.25	19.55	39.66	0.36	0.25	0.02	0.07	2000	650	1700	130	3.6	1.7	0.33	0.23
Generator 3	12/9		459.67	191.64	16.50	40.50	0.41	0.21	0.02	0.07	2000	650	1700	130	3.6	1.7	0.33	0.23
WBH	Not monitored (equipment under maintenance)																	
PSG 2																		
MOL Turbine 1	11/26	91%	95.42	1987.82	17.22	3.52	1.21	25.22	0.22	0.08	75	N/A	35	5	2.16	1.84	0.14	0.14
MOL Turbine 2	11/29	91%	108.23	1445.82	2.69	3.61	2.29	30.56	0.06	0.13	75	N/A	35	5	2.16	1.84	0.14	0.14
MOL Turbine 3	11/30	91%	101.66	1490.39	1.56	3.68	1.60	23.45	0.02	0.10	75	N/A	35	5	2.16	1.84	0.14	0.14
MOL Turbine 4	12/1	91%	129.46	716.38	0.95	3.67	1.72	9.49	0.01	0.08	75	N/A	35	5	2.16	1.84	0.14	0.14
MOL Turbine 5	12/1	91%	136.57	603.94	0.00	3.77	2.27	10.03	0.00	0.10	75	N/A	35	5	2.16	1.84	0.14	0.14
Generator 1	11/25		427.72	232.02	21.69	37.66	0.38	0.25	0.02	0.07	2000	650	1700	130	3.6	1.7	0.33	0.23
Generator 2	11/25		434.54	212.00	21.67	37.26	0.39	0.23	0.02	0.07	2000	650	1700	130	3.6	1.7	0.33	0.23
Generator 3	11/26		402.61	211.88	21.63	37.30	0.36	0.23	0.02	0.07	2000	650	1700	130	3.6	1.7	0.33	0.23
WBH	11/25		176.50	42.17	49.79	27.94	0.05	0.01	0.02	0.05	460	N/A	1000	100	0.07	0.05	0.11	0.02

NC - Non-Compliance **OK -** Compliance **N/A -** Not Available

Appendix 2.2c – Environmental Noise

	Standard	Units	Period
PSGs	55	dB (A)	Daytime
	45	dB (A)	Night-time

March 2008 – PSG 1 and PSG 2

Monitoring point	GPS Coordinate	Date and Time	Noise Readings in dBA	Background noise
PSG 1 NM 1	8512350 4589284	27.03.08 11:15 – 11:25	Average 53.4 Peak 54.1	Wind
PSG 1 NM 2	8512277 4589632	27.03.08 11:40 – 11:55	Average 53.5 Peak 54.3	No
PSG 1 NM 3	8513467 4590290	27.03.08 12:20 – 12:30	Average 44.6 Peak 48.2	Wind, vehicles
PSG 2 NM 1	8450375 4602555	27.03.08 14:25 – 14:40	Average 48.0 Peak 50.1	Light wind, birds
PSG 2 NM 2	8450170 4602501	27.03.08 15:05 – 15:15	Average 50.1 Peak 52.3	Light wind, birds

May 2008 – One off Daytime/Night time monitoring at BV 3 and BV 5

Monitoring point	GPS Coordinate	Date and Time	Noise Readings in dBA	Background noise
BV 3 Daytime	8501878 4605506	07/05/08 11:15	Average 47.2 Peak 50.3	
BV 3 Nighttime	8501878 4605506	07/05/08 12:40	Average 31.9 Peak 35.0	
BV 5 Daytime (Gen. on)	8482048 4598011	07/05/08 11:40	Average 50.2 Peak 54.9	Heavy traffic from Tbilisi-Marneuli highway
BV 5 Daytime (Gen. Off)	8482048 4598011	07/05/08 12:15	Average 48.4 Peak 48.9	Heavy traffic from Tbilisi-Marneuli highway
BV 5 Nighttime (Gen. on)	8482048 4598011	07/05/08 00:15	Average 48.4 Peak 55.3	Heavy traffic from Tbilisi-Marneuli highway
BV 5 Nighttime (Gen. off)	8482048 4598011	07/05/08 00:30	Average 46.7 Peak 46.7	Heavy traffic from Tbilisi-Marneuli highway

June 2008 – PSG 1 and PSG 2

Monitoring point	GPS Coordinate	Date and Time	Noise Readings in dBA	Background noise
PSG 1 NM 1	8512350 4589284	11.06.08 11:35 – 11:45	Average 50.3 Peak 50.7	Birds
PSG 1 NM 2	8512277 4589632	11.06.08 12:30 – 12:45	Average 54.9 Peak 55.6	Birds
PSG 1 NM 3	8513467 4590290	11.06.08 11:55 – 12:10	Average 45.9 Peak 47.0	Birds, drainage channel
PSG 2 NM 1	8450375 4602555	12.06.08 15:40 – 16:15	Average 59.2 Peak 60.4	Wind, frogs
PSG 2 NM 2	8450170 4602501	12.06.08 15:00 – 15:40	Average 48.5 Peak 49.6	Wind

August 2008 – PSG 1 and PSG 2

Monitoring point	GPS Coordinate	Date and Time	Noise Readings in dBA	Background noise
PSG 1 NM 1	8512350 4589284	28.08.08 11:35 – 11:45	Average 52.5 Peak 54.6	Birds, wind
PSG 1 NM 2	8512277 4589632	28.08.08 12:30 – 12:45	Average 52.9 Peak 53.8	Birds
PSG 1 NM 3	8513467 4590290	28.08.08 11:55 – 12:10	Average 45.8 Peak 48.5	Birds, drainage channel, vehicles
PSG 2 NM 1	8450375 4602555	28.08.08 15:40 – 16:15	Average 47.4 Peak 49.7	Light wind, birds
PSG 2 NM 2	8450170 4602501	28.08.08 15:00 – 15:40	Average 49.6 Peak 51.8	Light wind, birds

October 2008 – One off day time night time OSRBs monitoring

Monitoring point	GPS Coordinate	Date and Time	Noise Readings in dBA	Background noise
Borjomi OSRB NM 1 (day)	8368530 4632354	08/10/08 15:30 – 16:15	Average: 46.6	River, traffic road (Borjomi – Bakuriani)
Borjomi OSRB NM 1 (night)	8368530 4632354	08/10/08 23:30 – 00:05	Average: 45.2	River, traffic road (Borjomi – Bakuriani)
Borjomi OSRB NM 2 (day)	8368529 4632251	08/10/08 16:25 – 17:00	Average: 46.0	River, traffic road (Borjomi – Bakuriani)
Borjomi OSRB NM 2 (night)	8368529 4632251	08/10/08 00:10 – 00:35	Average: 49.3	River, traffic road (Borjomi – Bakuriani)
Borjomi OSRB NM 3 (day)	8368465 4632339	08/10/08 17:05 – 17:40	Average: 43.8	River, traffic road (Borjomi – Bakuriani)
Borjomi OSRB NM 3 (night)	8368465 4632339	08/10/08 00:45 – 01:30	Average: 42.7	River, traffic road (Borjomi – Bakuriani)
Tsalka OSRB NM 1 (day)	8421025 4606632	09/10/08 12:30 – 13:15	Average: 52.2	None
Tsalka OSRB NM 1 (night)	8421025 4606632	10/10/08 1:30 – 2:05	Average: 52.0	None
Tsalka OSRB NM 2 (day)	8420964 4606641	09/10/08 13:30 – 14:00	Average: 49.3	Closest point to the nearest village
Tsalka OSRB NM 2 (night)	8420964 4606641	10/10/08 2:15 – 3:00	Average: 48.1	Closest point to the nearest village
Tsalka OSRB NM 3 (day)	8420925 4606586	09/10/08 14:45 – 15:20	Average: 47.1	Close to nearest village
Tsalka OSRB NM 3 (night)	8420925 4606586	10/10/08 3:05 – 3:45	Average: 45.3	Close to nearest village
Tsalka OSRB NM 4 Village (day)	8420566 4607965	09/10/08 16:30 – 17:20	Average: 47.7	Village
Tsalka OSRB NM 4 Village (night)	8420566 4607965	10/10/08 5:00 – 5:30	Average: 47.9	Village
Rustavi OSRB NM 1 (day)		07/10/08 13:00 – 13:40	Average: 42.3	Traffic roads
Rustavi OSRB NM 1 (night)		08/10/08 12:10 – 12:40	Average: 41.9	Traffic road
Rustavi OSRB NM 2 (day)		07/10/08 14:40 – 15:15	Average: 51.4	Traffic road
Rustavi OSRB NM 2 (night)		08/10/08 12:45 – 00:25	Average: 48.3	Traffic road
Rustavi OSRB NM 3 (day)		07/10/08 15:25 – 16:00	Average: 46.2	Traffic road
Rustavi OSRB NM 3 (night)		08/10/08 00:30 – 01:05	Average: 45.9	Traffic road
Rustavi OSRB NM 4 (day)		07/10/08 16:10 – 16:45	Average: 47.3	Traffic road
Rustavi OSRB NM 4 (night)		08/10/08 01:15 – 01:55	Average: 46.4	Traffic road

November 2008 – Borjomi and Tsalka OSRBs

Location	GPS Coordinates	Average and Peak Noise Reading (dB)	Site Noise Audible	Background noise interference
OSRB1	8368530 4632354	Average: 48.2 Peak: 49.5	yes	Birds, vehicles noise from road.
OSRB2	8368529 4632251	Average: 56.3 Peak: 68.2	yes	River, road traffic, heavy vehicles.
OSRB3	8368465 4632339	Average: 57.2 Peak: 73.1	Yes	River, road traffic, heavy vehicles.
OSRBNR	8368251 4632817	Average: 55.7 Peak: 70.1	No	River, road traffic, heavy vehicles.
OSRT1	8421025 4606632	Average: 47.8 Peak: 49.4	No	wind
OSRT2	8420964 4606641	Average: 43.1 Peak: 44.9	No	wind

Location	GPS Coordinates	Average and Peak Noise Reading (dB)	Site Noise Audible	Background noise interference
OSRT3	8420925 4606586	Average: 50.2 Peak: 51.1	Yes	wind
OSRTNR	8420566 4607965	Average: 47.4 Peak: 56.2	No	wind

December 2008 – PSG 1 and PSG 2

Monitoring point	GPS Coordinate	Date and Time	Noise Readings in dBA	Background noise
PSG 1 NM 1	8512350 4589284	11/12/08 11:35 – 11:45	Max: 53.9 Average: 51.7	Birds, wind
PSG 1 NM 2	8512277 4589632	11/12/08 12:30 – 12:45	Max: 53.5 Average: 52.3	Birds
PSG 1 NM 3	8513467 4590290	11/12/08 11:55 – 12:10	Max: 48.3 Average: 45.9	Birds, drainage channel, vehicles
PSG 2 NM 1	8450375 4602555	15/12/08 15:40 – 16:15	Max: 50.9 Average: 48.6	Light wind, birds
PSG 2 NM 2	8450170 4602501	15/12/08 15:00 – 15:40	Max: 52.3 Average: 50.1	Light wind, birds

Appendix 2.2d – Effluent

Figures in red show non-compliances with the operations standards

PSG 1

Parameters	Stan-dards	Feb	Mar	Apr	May	Jun	Jun Duplic.	Jul	Oct	Nov	Dec
Monthly											
pH	6-9								8.5	8.62	8.74
COD	125	83	220	180	73	55	48	275	74	80.4	31
Oil and grease	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
TSS	35	17	11	212	150	16	17	26	10.4	8.1	8.2
NH_4	10	<0.01	0.83	0.42	0.69	0.55	0.52	<0.01	0.34	0.3	0.26
Sulphide	1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Coliform	<400		13	27	170	7	7	540	170	13	180
Quarterly											
BOD	25	13		13				36	4.3		
Heavy metals	10	<10		<10				<10	<10		
As	0.1	<0.005		<0.005				0.001	<0.005		
Cd	0.1	<0.001		<0.001				0.0015	<0.001		
Cr (6)	0.1	<0.01		<0.01				<0.01	<0.01		
Cr total	0.5	<0.01		<0.01				<0.01	<0.01		
Cu	0.5	0.008		0.007				0.014	0.001		
Fe	3.5	0.053		1.77				<0.005	0.1		
Pb	0.1	<0.005		<0.005				<0.005	<0.005		
Hg	0.01	0.000031		<0.00001				<0.00009	<0.00001		
Ni	0.5	<0.01		<0.01				<0.01	<0.01		
Se	0.1	<0.005		0.012				<0.005	0.07		
Ag	0.5	<0.001		0.001				<0.001	<0.001		
Zn	1	0.095		0.078				<0.001	0.02		
Phenols	0.5	<0.03		0.13				<0.03	<0.03		
Chlorine	0.2			0.03	<0.02	0.07		0.04	<0.02	0.02	<0.02

No monitoring conducted in January, August and September – retention pond frozen or dry

PSG 2

Parameters	Stan-dards	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Monthly											
pH	6-9	7.1	7.1	7.1	7.0	7.1	7.2	7.1	7.1	7.1	7.2
COD	125	51	51	24	18	38	23	11	26	8.3	
Oil & grease	10	<5	<5	<5	<5	<5	<5	<5	<5	<5	
TSS	35	2.2	8.2	<2	16	<2	3.6	6.2	12	<2	
NH_4	10	0.05	0.08	0.03	0.09	0.04	0.4	0.03	<0.01	0.01	
Sulphide	1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	
Coliform	<400		5	1,100	240	6	110	350	49	2	
Quarterly											
BOD	25	7.2	8.1			<3			2.7		
Heavy metals	10	<10	<10			<10			<10		
As	0.1	<0.005	<0.005			<0.001			0.009		
Cd	0.1	<0.001	<0.001			<0.001			<0.001		
Cr (6)	0.1	<0.01	<0.01			<0.01			<0.01		
Cr total	0.5	<0.01	<0.01			<0.01			<0.01		
Cu	0.5	0.001	0.002			0.024			0.005		
Fe	3.5	0.59	0.21			<0.005			0.1		
Pb	0.1	<0.005	<0.005			<0.005			<0.005		
Hg	0.01	<0.00001	<0.00001			<0.00001			<0.00001		
Ni	0.5	<0.01	<0.01			<0.1			<0.01		
Se	0.1	<0.005	<0.005			<0.005			0.02		
Ag	0.5	<0.001	<0.001			<0.001			<0.001		
Zn	1	0.009	0.004			0.0028			0.02		
Phenols	0.5	0.11	0.1			<0.03			<0.03		
Chlorine	0.2	0.22	0.15	<0.02	0.04	0.04	0.04	0.03	<0.02	0.02	

No monitoring conducted in January and February – retention pond frozen or dry

PSG 1 Camp

Parame-ters	Stan-dards	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pH	6-9	6.51	6.5	6.5	6.5	6.45	6.64	6.51	6.5	6.5	6.5	6.45	6.64
Oil and grease	10	<5	<5	<5	<4	<3	<4	<2	<5	<5	<1	<1	<2
TSS	35	<2	2.2	<2	7.6	12	9.2	2.5	<2	<2	14	8.5	9.2
TDS	-	-	940	980	<2	<2	<2	620	530	790	<2	14	2.7
NH_4	10	<0.01	<0.01	<0.01	1970	1040	1170	0.05	0.06	0.02	730	4610	885
Coliform	<400	180	8	94	<0.01	0.04	0.01	34	14	1,600	<0.01	0.01	<0.01
COD	250	<4	20	12	<5	<5	<5	15	15	14	<5	<5	<5
BOD	25	<4	<3	<4	17	33	27	<2	2.9	<1	350	280	220

PSG 2 Camp

Parame-ters	Stan-dards	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pH	6-9	7.28	7.3	7.3	7.3	7.3	7.3	7.28	7.28	7.34	7.28	7.28	7.34
Oil and grease	10	<5	<5	<5	<4	8.7	<4	<2	<5	<5	<1	<1	<2
TSS	35	<2	<2	<2	12	22	9.7	<2	<2	<2	13	14	17
TDS	-	-	610	560	<2	<2	<2	520	580	550	<2	<2	62
NH_4	10	<0.01	0.025	<0.01	570	485	500	<0.01	<0.01	0.01	490	200	530
Coliform	<400	14	33	23	<0.01	0.03	0.03	1,600	26	1,600	0.12	<0.01	<0.01
COD	250	8.5	41	32	<5	<5	<5	7.7	14	14	<5	<5	<5
BOD	25	<4	<3	<4	5	350	26	2.3	1.9	<1	110	130	1,600

Akhaltsikhe Camp

Parame-ters	Stan-dards	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
pH	6-9	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7	7.1	7.1	7	7.1
Oil and grease	10	<5	<5	<5	<4	<4	<4	<2	<5	<5	<1	<1	<2
TSS	35	<2	<2	<2	8	12	8	<2	3.6	10	14	8.4	11
TDS	-	-	1370	110	<2	<2	<2	1980	2650	2340	2.9	<2	3
NH_4	10	<0.01	0.022	0.04	1,050	1,070	1,120	<0.01	<0.01	<0.01	1,950	1,730	1,670
Coliform	<400	49	2		0.04	0.03	0.03	26	8	5	<0.01	<0.01	0.01
COD	250	4.2	32	14	<5	<5	<5	20	30	17	<5	<5	<5
BOD	25	<4	<2	4.5	49	26	9	<2	<3	<1	5	5	7

Borjomi OSRB

Parameters	Standards	Aug	Sep
pH	6-9	N/A	N/A
Oil & grease	10	<5	<5
TSS	35	8.6	6
TDS		2,600	660
NH_4	10	<0.01	0.03
Coliform	<400	11	13,000
COD	125	19	26
BOD	25	6.9	<5

Appendix 2.2e – Ground and Surface Waters

Location: **Borjomi.** Sampling Dates: **June 2008.** Sampling Round: **Round 5**

Sample Reference	Actual Monitoring Locations		Date Sampled/ Visited	Date Received by Laboratory	Notes	Sampled?	Duplicate No	Batch No.	Plate Reference
	Easting	Northing							
BMW1	8373177	4621773	14/06/2008	-	No sample taken, borehole dry.	N	-	-	Plate A1
BMW2	8372186	4621710	19/06/2008	24/06/2008	Monitoring location can be accessed via the north (Tsikhis-jvari) through the forest.	Y	8	5	Plate A2
BMW3	8371809	4621454	19/06/2008	24/06/2008	Monitoring location can be accessed via the north (Tsikhis-jvari) through the forest.	Y	-	5	Plate A3 / 4
BMW4	8371390	4621084	14/06/2008	-	Monitoring location inaccessible due to EDDF construction activities	N	-	-	Plate A5
BMW5	8371277	4620984	14/06/2008	-	Monitoring location inaccessible due to EDDF construction activities	N	-	-	Plate A6
BMW6	8370539	4620656	19/06/2008	24/06/2008	Monitoring location on the banks of watercourse that flows away from the pipeline (toward Tsikhisjvari) at KP 184.5. Access from the ROW at KP184.5.	Y	-	5	Plate A7 / 8
BMW7	8370119	4621035	14/06/2008	19/06/2008	located in Tsikhisjvari.	Y	-	4	Plate A9
BMW8	8369327	4621328	19/06/2008	25/06/2008	Monitoring well located next to large stream adjacent to pipeline. Access to location is from GC19/20 road. Monitoring well was under the water.	Y	-	6	Plate A10
BMW9	8366920	4621920	19/06/2008	25/06/2008	Vehicle access from KP188.7 through forest and through wooden gate down into gully. Rinsate sample 7 from bailer has been taken.	Y	-	6	Plate A11
BMW10	8365920	4622743	18/06/2008	25/06/2008	Accessed from ROW.	Y	-	6	Plate A12
BMW11	8364447	4623224	18/06/2008	25/06/2008	Accessed in from ROW, down steep slope. Pumping well not yet decommissioned.	Y	-	6	Plate A13
BSW1	8376513	4618242	14/06/2008	19/06/2008	Located adjacent to Tskratskaro road.	Y	-	4	Plate A14
BSW2	8373278	4621262	19/06/2008	24/06/2008	Located in small stream.	Y	-	5	Plate A15
BSW3	8371950	4622418	18/06/2008	25/06/2008	Located at secondary OSR containment facility. Due to construction activities sampling point was removed 50m up stream.	Y	-	6	Plate A16
BSW4	8370313	4621550	14/06/2008	19/06/2008	Located in centre of Tsikhisjvari, adjacent to school. Duplicate 7 has been taken.	Y	-	4	Plate A17
BSW5	8369504	4621262	14/06/2008	19/06/2008	Located at ROW road crossing at base of steep slope.	Y	-	4	Plate A18
BSW6	8369284	4621150	14/06/2008	19/06/2008	Located adjacent to access road to Kodiana.	Y	-	4	Plate A19
BSW7	8368015	4625752	14/06/2008	-	Road impassable. Construction of new road is ongoing. Will be accessible in September.	N	-	-	-
BSW8	8368010	4625824	14/06/2008	-	Road impassable. Construction of new road is ongoing. Will be accessible in September.	N	-	-	-
BSW9	8372934	4623695	14/06/2008	19/06/2008	Located in Andesit village adjacent to road crossing.	Y	-	4	Plate A20

Location: **Ktsia Tabatskuri.** Sampling Dates: **June 2008.** Sampling Round: **Round 5**

Sample Reference	Actual Monitoring Locations		Date Sampled/ Visited	Date Received by Laboratory	Notes	Sampled?	Duplicate No	Batch No.	Plate Reference
	Easting	Northing							
KTMW1	8392512	4619253	12/06/2008	19/06/2008	Slow recharge	Y	-	4	Plate B1
KTMW2	8391738	4618766	12/06/2008	19/06/2008	Located to north of small hillock.	Y	-	4	Plate B2
KTMW3	8390784	4617793	12/06/2008	19/06/2008	Monitoring well located in wetlands area accessed via track from KP158.	Y	-	4	Plate B3
KTMW4	8389442	4617225	-	-	Decommissioned	N	-	-	-
KTMW5	8387981	4615141	10/06/2008	18/06/2008	Monitoring well located to the north of the road to Tsalka.	Y	-	3	Plate B4
KTMW6	8386902	4615690	-		Decommissioned	N	-	-	-
KTMW7	8386818	4616266	11/06/2008	18/06/2008	Located northeast of lake.	Y	-	3	Plate B5
KTMW8	8386134	4615934	-	-	Decommissioned	N	-	-	-
KTMW9	8385566	4616859	11/06/2008	-	Well is dry	N	-	-	Plate B6
KTMW10	8385242	4616166	10/06/2008	18/06/2008	Located to north of Tabatskuri village.	Y	-	3	Plate B7
KTMW11	8384790	4616672	12/06/2008	19/06/2008	Located to north of Tabatskuri village.	Y	5	4	Plate B8
KTMW12	8384358	4616761	12/06/2008	19/06/2008	Located to north of Tabatskuri village.	Y	-	4	Plate B9
KTMW13	8384456	4614458	11/06/2008	18/06/2008	Monitoring well located just to north of Tabatskuri lake. Down steep slope from road. Duplicate 4 was taken.	Y	4	3	Plate B10
KTMW14	8383026	4613503	11/06/2008	18/06/2008	Site is located on agricultural land	Y	-	3	Plate B11
KTMW15	8419935	4611296	13/06/2008	-	Well was block by rock. Rock has been removed. Well is dry.	N	-	-	Plate B12
KTMW16a	8378160	4615796	13/06/2008	18/01/1900	Located approximately 50 metres north of ROW and approximately 50 metres south east of river.	Y	-	3	Plate B13
KTMW17	8378284	4616043	13/06/2008	19/06/2008	Maintenance of cower is complete. Duplicate 6 and Rinsate 5 (from bailer and glows) have been taken.	Y	-	4	Plate B14

Location: **Ktsia Tabatskuri.** Sampling Dates: **June 2008.** Sampling Round: **Round 5**

Sample Reference	Actual Monitoring Locations		Date Sampled/ Visited	Date Received by Laboratory	Notes	Sampled?	Duplicate No	Batch No.	Plate Reference
	Easting	Northing							
KTSW1	8391073	4617831	12/06/2008	19/06/2008	Located in drainage ditch adjacent to ROW.	Y	-	4	Plate B15
KTSW2	8389734	4617284	12/06/2008	19/06/2008	Located in small pond adjacent to drainage channel. Duplicate 5 was taken.	Y	-	4	Plate B16
KTSW3	8384288	4616476	07/06/2008	14/06/2008	located up to the tabatskuri road	Y	-	2	Plate B17
KTSW4	8383809	4616939	07/06/2008	14/06/2008	Located to south of access road. Very low flow stream. Duplicate 2 was taken	Y	-	2	Plate B18
KTSW5	8383192	4616971	07/06/2008	14/06/2008	Located to south of access road. Low flow stream.	Y	-	2	Plate B19
KTSW6	8382596	4617033	10/06/2008	18/06/2008	Located up on the tabatskuri road.	Y	2	3	Plate B20
KTSW7	8381574	4616827	10/06/2008	18/06/2008	Located to south of access road.	Y	-	3	Plate B21
KTSW8	8384402	4615322	07/06/2008	14/06/2008	Small spring source. North west of Tabatskuri village.	Y	-	2	Plate B22
KTSW9	8381371	4616429	11/06/2008	18/06/2008	Small stream. Accessed from track between Moliti and main access road.	Y	-	3	Plate B23
KTSW10	8380640	4616124	11/06/2008	18/06/2008	Small stream. Accessed from track between Moliti and main access road.	Y	-	3	Plate B24
KTSW11	8380367	4616201	11/06/2008	18/06/2008	Small stream. Accessed from track between Moliti and main access road.	Y	-	3	Plate B25
KTSW12	8379955	4615963	12/06/2008	19/06/2008	Small stream. Located south of water pipe.	Y	-	4	Plate B26
KTSW13	8378810	4616132	13/06/2008	19/06/2008	spring dry. Sample taken from stream which the spring would have flown into.	Y	-	4	Plate B27
KTSW14	8378164	4615818	13/06/2008	19/06/2008	Located north of ROW.	Y	-	4	Plate B28
KTSW15	8379381	4616233	13/06/2008	19/06/2008	Located at river crossing.	Y	-	4	Plate B29
KTSW16	8378002	4615620	13/06/2008	19/06/2008	Located to south of ROW on tributary stream.	Y	-	4	Plate B30
KTSW17	8386820	4616229	11/06/2008	18/06/2008	Located north of Tabatskuri Village.	Y	-	3	Plate B31
KTSW18	8386180	4616326	11/06/2008	18/06/2008	Located north of Tabatskuri Village.	Y	-	3	Plate B32
KTSW19	8385987	4616252	11/06/2008	-	Located north of Tabatskuri Village. Stream was dry.	N	-	-	Plate B33

Location: **Tsalka.** Sampling Dates: **June 2008.** Sampling Round: **Round 5**

Sample Reference	Actual Monitoring Locations		Date Sampled / Visited	Date Received by Laboratory	Notes	Sampled?	Duplicate No	Batch No.	Plate Reference
	Easting	Northing							
TMW1	8433106	4612038	21/06/2008	25/06/2008	Located to east on outskirts of Imera village. Dry.	Y	-	6	Plate C1
TMW2	8434393	4612460	21/06/2008	-	Well dry, no sample taken	N	-	-	Plate C2
TMW3	8431053	4612947	21/06/2008	25/06/2008	Located on field, on wetland area.	Y	-	6	Plate C3 / 4
TMW4	8424331	4612125	21/06/2008	25/06/2008	Monitoring well located to west of access track.	Y	-	6	Plate C5
TMW5	8423427	4612000	21/06/2008	25/06/2008	located 100m from Tsalka leak. Duplicate 9 was taken.	Y	9	6	Plate C6
TMW6	8420674	4612334	21/06/2008	25/06/2008	Monitoring well located north of access road along Tsalka lake.	Y	-	6	Plate C7
TMW7	8419452	4612069	21/06/2008	-	Well is dry.	N	-	-	Plate C8
TMW8	8417085	4611740	05/06/2008	13/06/2008	20m from Kizil-kilisa road.	Y	-	1	Plate C9
TMW9a	8415279	4609415	05/06/2008	-	Decommissioned	N	-	-	-
TMW10	8409437	4610750	05/06/2008	-	Adjacent to Jinisi road. Dry	N	-	-	Plate C10
TMW11	8407174	4612703	05/06/2008	13/06/2008	Located in Kizil-kilisa.	Y	-	1	Plate C11
TMW12	8405099	4613952	05/06/2008	-	Dry	N	-	-	Plate C12
TMW13	8402075	4616384	05/06/2008	-	Dry	N	-	-	Plate C13
TMW14	8397939	4616278	10/06/2008	18/06/2008	Duplicate 3 was taken	Y	3	3	Plate C14
TMW15	8419935	4611996	10/06/2008	-	well was dry	N	-	-	Plate C15
TMW16	8420992	4611905	05/06/2008	13/06/2008	Agricultural land. 25m from public road.	Y	-	1	Plate C16 / 17
TMW17	8422157	4613206	20/06/2008	25/06/2008	Monitoring Well recharges	Y	-	6	Plate C18
TMW18	8427136	4613740	20/06/2008	25/06/2008	Well was maintained and sampled. Rinsate 8 was taken	Y	-	6	Plate C19
TMW19	8431722	4612139	20/06/2008	-	Well dry, no sample taken	N	-	-	Plate C20
TMW20	8405931	4613830	20/06/2008	-	Well is dry	N	-	-	Plate C21

Location: **Tsalka.** Sampling Dates: **June 2008.** Sampling Round: **Round 5**

Sample Reference	Actual Monitoring Locations		Date Sampled / Visited	Date Received by Laboratory	Notes	Sampled?	Duplicate No	Batch No.	Plate Reference
	Easting	Northing							
TSW1	8429570	4613143	21/06/2008	25/06/2008	Sample taken from small stream entering wetland area which is in the same catchment as original sample.	Y	-	6	Plate C22
TSW2	8425995	4612479	21/06/2008	25/06/2008	Accessed from village from the north, as unable to cross lower river.	Y	-	6	Plate C23
TSW3	8426072	4613406	21/06/2008	25/06/2008	Lot of waste around stream, used as dumping area by village.	Y	-	6	Plate C24
TSW4	8425688	4613377	21/06/2008	25/06/2008	Located to west of access bridge.	Y	-	6	Plate C25
TSW5	8421649	4612214	21/06/2008	-	Dry Spring	N	-	-	Plate C26
TSW6	8409634	4611113	05/06/2008	13/06/2008	Concrete block was not found.	Y	-	1	Plate C27
TSW7	8407530	4612458	05/06/2008	13/06/2008	Due to changed streams directions, the sample point was removed 100m down stream.	Y	-	1	Plate C28
TSW9	8404452	4615122	05/06/2008	13/06/2008	Small pond.	Y	-	1	Plate C29
TSW10	8404467	4615083	05/06/2008	13/06/2008	Very slow flow.	Y	-	1	Plate C30
TSW11	8404472	4615046	05/06/2008	-	Dry stream	N	-	-	Plate C31
TSW12	8400448	4616019	06/06/2008	13/06/2008	Small stream close to KP148.	Y	-	1	Plate C32
TSW13	8398892	4617125	06/06/2008	13/06/2008	Taken from small spring to south of orginial sample.	Y	-	1	Plate C33
TSW14	8397527	4617163	10/06/2008	18/06/2008	Dry leak. Wetland. Due to low level of water, sample was taken from opposite embankment.	Y	-	3	Plate C34
TSW16	8397527	4616261	06/06/2008	13/06/2008	Up stream from the bridge.	Y	-	1	Plate C35
TSW17	8422634	4613652	20/06/2008	25/06/2008	Sluice gates open. Accessed from village to the north.	Y	-	6	Plate C36
TSW18	8433118	4611990	20/06/2008	25/06/2008	Concrete block was in water. Duplicate 10 was taken. Rinsate 9 was taken from bottle surface and from glows.	Y	10	6	Plate C37
TSW19	8405061	4612796	06/06/2008	13/06/2008	Spring. Water is used for village as a drinking water.	Y	1	1	Plate C38
TSW20	8418582	4612440	05/06/2008	13/06/2008	Point from previous round dry, sample taken from wetlands to west.	Y	-	1	Plate C39
TSW21	8401768	4617050	06/06/2008	13/06/2008	Sample taken up-gradient of river crossing.	Y	-	1	Plate C40
TSW22	8406152	4615779	06/06/2008	13/06/2008	Sample taken down-gradient of river crossing.	Y	-	1	Plate C41

Location: **PSG2.** Sampling Dates: **June 2008.** Sampling Round: **Round 5**

Sample Reference	Actual Monitoring Locations		Date Sampled/ Visited	Date Received by Laboratory	Notes	Sampled?	Duplicate No	Batch No.	Plate Reference
	Easting	Northing							
PSG2MW1	8452771	4600388	07/06/2008	14/06/2008	Existing water supply well situated within PSG2 camp. Samples were collected. MoE rep attended sampling.	Y	-	2	Plate D1
PSG2SW1	8452140	4600199	07/06/2008	14/06/2008	Situated within the Chiv Chavi River to the north of the road bridge. Water presented, samples were collected. MoE rep attended sampling.	Y	-	2	Plate D2
PSG2SW2	8451952	4600644	07/06/2008	14/06/2008	Situated in a small tributary flowing to Chiv Chavi. Water presented, samples were collected. MoE rep attended sampling.	Y	-	2	Plate D3
PSG2SW3	8450600	4603151	07/06/2008	14/06/2008	Monitoring point located to Chiv Chavi River. Access through forest down a track to the north of PSG2. Water presented, samples were collected. MoE rep attended sampling.	Y	-	2	Plate D4

Location: **PSG1.** Sampling Dates: **June 2008.** Sampling Round: **Round 5**

Sample Reference	Actual Monitoring Locations		Date Sampled/ Visited	Date Received by Laboratory	Notes	Sampled?	Duplicate No	Batch No.	Plate Reference
	Easting	Northing							
PSG1MW1	8512422	4589327	07/06/2008	13/06/2008	Situated adjacent to southeastern wall of PSG1. Furthest east location. Water presented in well, samples were collected. MoE rep attended sampling.	Y	-	1	Plate E1
PSG1MW2	8512290	4589252	07/06/2008	13/06/2008	Situated adjacent to southeastern wall of PSG1. Further south than PSG1MW1. Water presented in well, samples were collected. MoE rep attended sampling.	Y	-	1	Plate E2
PSG1MW3	8512152	4589613	06/06/2008	13/06/2008	Situated adjacent to northern wall of PSG1. Water presented in well, samples were collected. MoE rep attended sampling.	Y	-	1	Plate E3
PSG1MW4	8512173	4589543	06/06/2008	13/06/2008	Existing water supply well situated within PSG1 facility, used for potable and process water abstraction. Samples were collected. MoE rep attended sampling.	Y	-	1	Plate E4
PSG1MW5	8512104	4589207	06/06/2008	13/06/2008	Existing water supply well situated within PSG1 camp, used for potable water. Samples were collected. MoE rep attended sampling.	Y	-	1	Plate E5
PSG1BH1	8512410	4589195	07/06/2008	13/06/2008	Monitoring well located inside the CWAA, Adjacent to southern side of the fence. Water presented in well, samples were collected. MoE rep attended sampling.	Y	-	1	Plate E6
PSG1SW1	8512357	4589099	06/06/2008	13/06/2008	Drainage channel located to the south east of the pumping station. Water presented in channel, samples were collected. MoE rep attended sampling.	Y	-	1	Plate E7
PSG1SS1	8512326	4589147	-	-	Location not sampled	N	-	1	Plate E8

Location: **Various.** Sampling Dates: **June 2008.** Sampling Round: **Round 5 QAQC**

Sample Reference	Duplicate Locations		Date Sampled	Sample Type	Notes
	Easting	Northing			
DUPLICATES					
Duplicate 1	8433118	4611990	06/06/2008	SW	Duplicate of TSW19
Duplicate 2	8383809	4616939	07/06/2008	SW	Duplicate of TSW6
Duplicate 3	8397939	4616278	10/06/2008	MW	Duplicate of TMW14
Duplicate 4	8381371	4616429	11/06/2008	SW	Duplicate of KTSW9
Duplicate 5	8384796	4616672	12/06/2008	MW	Duplicate of KTMW11
Duplicate 6	8378284	4616043	13/06/2008	MW	Duplicate of KTMW17
Duplicate 7	8370313	4621550	14/06/2008	SW	Duplicate of BSW4
Duplicate 8	8373278	4621262	18/06/2008	SW	Duplicate of BMW2
Duplicate 9	8423427	4612000	20/06/2008	MW	Duplicate of TMW5
Duplicate 10	8405061	4612796	21/06/2008	SW	Duplicate of TSW18
RINSATES					
Rinsate 1	N/A	N/A	07/06/2008	Deionised Water	Rinsate of Gloves.
Rinsate 2	N/A	N/A	10/06/2008	Deionised Water	Rinsate of bailer.
Rinsate 3	N/A	N/A	11/06/2008	Deionised Water	Rinsate of rope and gloves.
Rinsate 4	N/A	N/A	12/06/2008	Deionised Water	Rinsate of bailer
Rinsate 5	N/A	N/A	13/06/2008	Deionised Water	Rinsate of gloves
Rinsate 6	N/A	N/A	14/06/2008	Deionised Water	Rinsate of bailer
Rinsate 7	N/A	N/A	18/06/2008	Deionised Water	Rinsate of bailer
Rinsate 8	N/A	N/A	20/06/2008	Deionised Water	rinsate of bailer and robe.
Rinsate 9	N/A	N/A	21/06/2008	Deionised Water	Rinsate of bottle surface and gloves.
TRIP BLANKS					
Trip Blank 1	N/A	N/A	5/06/08	Deionised Water	Transported with Batch 1
Trip Blank 2	N/A	N/A	-	-	No trip blank transported with Batch 2
Trip Blank 3	N/A	N/A	11/06/08	Deionised Water	Transported with Batch 3
Trip Blank 4	N/A	N/A	14/06/08	Deionised Water	Transported with Batch 4
Trip Blank 5	N/A	N/A	19/06/08	Deionised Water	Transported with Batch 5
Trip Blank 6	N/A	N/A	20/06/08	Deionised Water	Transported with Batch 6

Location: **Various.** Sample Type: **Duplicates.** Sampling Dates: **June 2008.** Sampling Round: **Round 5 QAQC**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	TSW19 06/06/07	DUPLICATE 1 06/06/08	RPD (%)	TSW6 07/06/07	DUPLICATE 2 07/06/08	RPD (%)	TMW14 10/06/07	DUPLICATE 3 10/06/08	RPD (%)	KTSW9 13/10/06	DUPLICATE 4 13/10/07	RPD (%)
PETROLEUM HYDROCARBONS			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GRO (C4-C12)	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics C5-C6	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C6-C8	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C8-C10	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C10-C12	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C12-C16	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C16-C21	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C21-C35	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Aliphatics C5-C35	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics C6-C7	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >C7-C8	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC8-EC10	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC10-EC12	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC12-EC16	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC16-EC21	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC21-EC35	10	µg/l	ND	ND	ND	ND	120	ND*	ND	ND	ND	ND	ND	ND
Total Aromatics C6-C35	10	µg/l	ND	ND	ND	ND	120	ND*	ND	ND	ND	ND	ND	ND
TPH (Aliphatics and Aromatics C5-C35)	10	µg/l	ND	ND	ND	ND	120	ND*	ND	ND	ND	ND	ND	ND
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	0.011	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	0.015	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	0.014	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	0.022	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	0.015	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	0.017	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	0.015	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	0.017	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.013	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.023	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.027	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.009	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(123cd)pyrene	0.014	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(ah)anthracene	0.016	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	0.016	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH 16 Total	0.1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS														
MTBE	2	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	2	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	2	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

KEY: ND - indicates that result is less than the method detection limit. RPD - Relative Percentage Difference. ND* - Result from One Laboratory is below the Method Detection Limit.

Location: **Various.** Sample Type: **Duplicates.** Sampling Dates: **June 2008.** Sampling Round: **Round 5 QAQC**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTMW11 12/06/07	DUPLICATE 5 12/06/08	RPD (%)	KTMW17 13/06/07	DUPLICATE 6 13/06/08	RPD (%)	BSW4 14/06/07	DUPLICATE 7 14/06/08	RPD (%)	BMW2 19/06/07	DUPLICATE 8 19/06/08	RPD (%)
PETROLEUM HYDROCARBONS			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
GRO (C4-C12)	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics C5-C6	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C6-C8	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C8-C10	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C10-C12	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C12-C16	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C16-C21	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aliphatics >C21-C35	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Aliphatics C5-C35	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics C6-C7	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >C7-C8	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC8-EC10	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC10-EC12	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC12-EC16	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC16-EC21	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aromatics >EC21-EC35	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Aromatics C6-C35	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPH (Aliphatics and Aromatics C5-C35)	10	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene	0.011	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene	0.015	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene	0.014	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	0.022	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene	0.015	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	0.017	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene	0.015	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benz(a)anthracene	0.017	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	0.013	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	0.023	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	0.027	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	0.009	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(123cd)pyrene	0.014	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzo(ah)anthracene	0.016	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(ghi)perylene	0.016	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PAH 16 Total	0.1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS														
MTBE	2	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene	1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	2	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
p/m-Xylene	2	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
o-Xylene	1	µg/l	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

KEY: ND - indicates that result is less than the method detection limit. RPD - Relative Percentage Difference. ND* - Result from One Laboratory is below the Method Detection Limit.

Location: **Various.** Sample Type: **Duplicates.** Sampling Dates: **June 2008.** Sampling Round: **Round 5 QAQC**

Analyte	Method Detection Limit	Sample Reference	Trip Blank 1	Trip Blank 2	Trip Blank 3	Trip Blank 4	Trip Blank 5	Trip Blank 6
Volatile Organic Compounds								
Methyl Tertiary Butyl Ether	*2*	*ug/l*	*<2*	*NA*	*<2*	*<2*	*<2*	*<2*
Benzene	*1*	*ug/l*	*<1*	*NA*	*<1*	*<1*	*<1*	*<1*
Toluene	*1*	*ug/l*	*<1*	*NA*	*<1*	*<1*	*<1*	*<1*
Ethylbenzene	*2*	*ug/l*	*<2*	*NA*	*<2*	*<2*	*<2*	*<2*
p/m-Xylene	*2*	*ug/l*	*<2*	*NA*	*<2*	*<2*	*<2*	*<2*
o-Xylene	*1*	*ug/l*	*<1*	*NA*	*<1*	*<1*	*<1*	*<1*

KEY:
< Analyte concentration below method detection limit
NA Not Applicable

Location: **Various.** Sample Type: **Duplicates.** Sampling Dates: **June 2008.** Sampling Round: **Round 5 QAQC**

Analyte	Method Detection Limit	Sample Reference	RINSATE 1	RINSATE 2	RINSATE 3	RINSATE 4	RINSATE 5	RINSAT E 6	RINSATE 7	RINSATE 8
		Date Sampled	07/06/08	10/06/08	11/06/80	12/06/08	13/06/08	14/06/08	19/06/08	20/06/08
HYDROCARBONS										
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10
POLYCYCLIC AROMATIC HYDROCARBONS										
Naphthalene	0.1	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Acenaphthylene	0.011	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
PAH 16 Total	0.1	ug/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
VOLATILE ORGANIC COMPOUNDS										
MTBE	2	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	2	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	2	ug/l	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1

KEY: < Concentration below method detection limit

Location: **Borjomi.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

KEY: DRY – Location dry at time of sampling. < – Concentration less than method detection limit. NA – Not analised.

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BMW1 Baseline 29/09/05	BMW1 Round 1 21/07/06	BMW1 Round 2 22/10/06	BMW1 Round 3 17/07/07	BMW1 Round 4 09/10/07	BMW1 Round 5 14/06/08	BMW2 Baseline 15/08/05	BMW2 Round 1 21/07/06	BMW2 Round 2 22/10/06	BMW2 Round 3 17/07/07	BMW2 Round 4 13/10/07	BMW2 Round 5 19/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
p/m-Xylene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
o-Xylene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	0.14	<0.026	<0.1
Acenaphthylene	0.011	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	NA	<0.01	0.14	<0.027	<0.1

Location: **Borjomi.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BMW1 Baseline 29/09/05	BMW1 Round 1 21/07/06	BMW1 Round 2 22/10/06	BMW1 Round 3 17/07/07	BMW1 Round 4 09/10/07	BMW1 Round 5 14/06/08	BMW2 Baseline 15/08/05	BMW2 Round 1 21/07/06	BMW2 Round 2 22/10/06	BMW2 Round 3 17/07/07	BMW2 Round 4 13/10/07	BMW2 Round 5 19/06/08
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	<1	<1	<1	<1	<1
ADDITIONAL														
Calcium Dissolved	5	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	36270	4820	40900	42000	41000	NA
Magnesium Dissolved	5	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	4682	640	5946	5800	5900	NA
Manganese Dissolved	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	6	<1	<1	2	<1	NA
Iron Total (HNO3 Digest)	5	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	2173000	1653000	875700	700000	450	NA
Total Alkalinity as CaCO3	2	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	285	230	205	350	160	NA
Potassium Dissolved	0.2	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	0.2	0.2	0.2	0.3	0.5	NA
Sodium Dissolved	0.2	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	12.6	12.5	11.9	14.0	12.0	NA
Nitrate as NO3	0.3	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	1.4	1.7	1.7	1.8	1.1	NA
Sulphate (soluble)	3	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	<3	<3	<3	<3	<3	NA
Chloride	1	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	1	<1	1	1	1	NA
pH Value	1	pH units	DRY	DRY	DRY	DRY	DRY	DRY	8.13	8.42	8.25	7.93	8.60	NA

Location: **Borjomi.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BMW3 Baseline 15/08/05	BMW3 Round 1 21/07/06	BMW3 Round 2 22/10/06	BMW3 Round 3 17/07/07	BMW3 Round 4 13/10/07	BMW3 Round 5 19/06/08	BMW4 Baseline 14/08/05	BMW4 Round 1 18/06/06	BMW4 Round 2 22/10/06	BMW4 Round 3 14/07/07	BMW4 Round 4 09/10/07	BMW4 Round 5 14/06/08	BMW 5 Baseline 02/09/05	BMW5 Round 1 19/06/06	BMW5 Round 2 22/10/06	BMW5 Round 3 14/07/07	BMW5 Round 4 09/10/07	BMW5 Round 5 14/06/08
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Ethylbenzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
p/m-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
o-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	No access	<10	<10	<10	<10	<10	No access
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	<0.01	NA	<0.01	<0.026	<0.026	<0.1	0.694	<0.01	0.103	<0.026	<0.026	No access	<0.01	<0.01	<0.01	<0.026	<0.026	No access
Acenaphthylene	0.011	ug/l	<0.01	NA	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	No access	<0.01	<0.01	<0.01	<0.011	<0.011	No access
Acenaphthene	0.015	ug/l	<0.01	NA	<0.01	<0.015	<0.015	<0.015	0.045	<0.01	<0.01	<0.015	<0.015	No access	<0.01	<0.01	<0.01	<0.015	<0.015	No access
Fluorene	0.014	ug/l	<0.01	NA	<0.01	<0.014	<0.014	<0.014	0.035	<0.01	<0.01	<0.014	<0.014	No access	<0.01	<0.01	<0.01	<0.014	<0.014	No access
Phenanthrene	0.022	ug/l	<0.01	NA	<0.01	<0.022	<0.022	<0.022	0.072	<0.01	<0.01	<0.022	<0.022	No access	<0.01	<0.01	<0.01	<0.022	<0.022	No access
Anthracene	0.015	ug/l	<0.01	NA	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	No access	<0.01	<0.01	<0.01	<0.015	<0.015	No access
Fluoranthene	0.017	ug/l	<0.01	NA	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	No access	<0.01	<0.01	<0.01	<0.017	<0.017	No access
Pyrene	0.015	ug/l	<0.01	NA	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	No access	<0.01	<0.01	<0.01	<0.015	<0.015	No access
Benz(a)anthracene	0.017	ug/l	<0.01	NA	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	No access	<0.01	<0.01	<0.01	<0.017	<0.017	No access
Chrysene	0.013	ug/l	<0.01	NA	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	No access	<0.01	<0.01	<0.01	<0.013	<0.013	No access
Benzo(b)fluoranthene	0.023	ug/l	<0.01	NA	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	No access	<0.01	<0.01	<0.01	<0.023	<0.023	No access
Benzo(k)fluoranthene	0.027	ug/l	<0.01	NA	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	No access	<0.01	<0.01	<0.01	<0.027	<0.027	No access
Benzo(a)pyrene	0.009	ug/l	<0.01	NA	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	No access	<0.01	<0.01	<0.01	<0.009	<0.009	No access
Indeno(123cd)pyrene	0.014	ug/l	<0.01	NA	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	No access	<0.01	<0.01	<0.01	<0.014	<0.014	No access
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	NA	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	No access	<0.01	<0.01	<0.01	<0.016	<0.016	No access
Benzo(ghi)perylene	0.016	ug/l	<0.01	NA	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	No access	<0.01	<0.01	<0.01	<0.016	<0.016	No access
PAH 16 Total	0.027	ug/l	<0.01	NA	<0.01	<0.027	<0.027	<0.1	0.846	<0.01	0.103	<0.027	<0.027	No access	<0.01	<0.01	<0.01	<0.027	<0.027	No access
BTEX																				
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	No access	NA	<1	<1	<1	<1	No access
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	No access	<1	<1	<1	<1	<1	No access
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	No access	<1	2	<1	<1	<1	No access
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	No access	<1	<1	<1	<1	<1	No access
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	No access	<1	<1	<1	<1	<1	No access
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	No access	<1	<1	<1	<1	<1	No access
ADDITIONAL																				
Calcium Dissolved	5	ug/l	insufficient sample	5320	52650	48000	50000	NA	34680	37010	39570	44000	48000	No access	31180	41850	44190	48000	52000	No access
Magnesium Dissolved	5	ug/l	insufficient sample	971	9832	8800	9800	NA	8593	8698	9085	10000	9800	No access	3902	3982	4964	4800	5400	No access
Manganese Dissolved	1	ug/l	insufficient sample	<1	<1	1	<1	NA	374	888	364	210	140	No access	152	1	3	2	67	No access
Iron Total (HNO3 Digest)	5	ug/l	insufficient sample	417300	158900	780000	740000	NA	26860	16860	88810	53000	78000	No access	40680	3594	46920	180000	48000	No access
Total Alkalinity as CaCO3	2	mg/l	insufficient sample	305	210	1300	260	NA	180	225	200	170	190	No access	120	140	135	150	150	No access
Potassium Dissolved	0.2	mg/l	insufficient sample	0.5	0.6	1.1	0.8	NA	0.3	0.3	0.3	0.5	0.3	No access	0.5	0.2	0.3	0.3	0.5	No access
Sodium Dissolved	0.2	mg/l	insufficient sample	14.3	18.8	26	20	NA	10.8	10.1	11.1	11.0	15.0	No access	7.1	4.8	6.2	5.7	8.9	No access
Nitrate as NO3	0.3	mg/l	insufficient sample	3.2	3.9	3.2	2.5	NA	<0.3	0.4	<0.3	0.7	<0.3	No access	2.7	2.4	20.0	6.3	4.0	No access
Sulphate (soluble)	3	mg/l	insufficient sample	<3	<3	<3	<3	NA	5	3	5	4	5	No access	<3	<3	10	5	3	No access
Chloride	1	mg/l	insufficient sample	<1	1	2	<1	NA	<1.00	1	<1	1	<1	No access	<1.00	1	3	1	<1	No access
pH Value	1	pH units	insufficient sample	8.25	8.35	8.06	8.41	NA	8.63	8.07	8.53	8.33	7.97	No access	8	8.01	8.39	8.08	7.79	No access

Location: **Borjomi.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BMW6 Baseline 03/09/05	BMW6 Round 1 22/06/06	BMW6 Round 2 23/10/06	BMW6 Round 3 14/07/07	BMW6 Round 4 12/10/07	BMW6 Round 5 19/06/08	BMW7 Baseline 02/09/05	BMW7 Round 1 25/06/06	BMW7 Round 2 24/10/06	BMW7 Round 3 13/07/07	BMW7 Round 4 13/10/07	BMW7 Round 5 14/06/08	BMW 8 Baseline 02/09/05	BMW8 Round 1 19/06/06	BMW8 Round 2 24/10/06	BMW8 Round 3 13/07/07	BMW8 Round 4 01/10/07	BMW8 Round 5 19/06/08
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<11	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<12	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<13	<10	<10	<10	<10	<10	<10
p/m-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<14	<10	<10	<10	<10	<10	<10
o-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<15	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	No Access	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	No Access	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	No Access	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	0.234	<0.01	<0.01	<0.026	<0.026	<0.1	<0.01	<0.01	No Access	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	0.028	0.032	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	No Access	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	0.041	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	0.036	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	No Access	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	0.099	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	No Access	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	0.017	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	0.051	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	No Access	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	No Access	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	No Access	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	No Access	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	No Access	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	No Access	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	No Access	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	No Access	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	No Access	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	0.478	<0.01	<0.01	<0.027	<0.027	<0.1	<0.01	<0.01	No Access	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	0.028	0.032	<0.1
BTEX																				
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	No Access	<1	<1	<2	NA	<1	1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	No Access	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	No Access	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1
ADDITIONAL																				
Calcium Dissolved	5	ug/l	61560	57500	61090	65000	7800	NA	45870	55840	No Access	56000	55000	NA	38330	43260	30410	35000	28000	NA
Magnesium Dissolved	5	ug/l	13560	14780	15870	17000	2200	NA	6783	9380	No Access	10000	10000	NA	8208	10400	7883	9100	7100	NA
Manganese Dissolved	1	ug/l	1744	2097	2035	1900	<1	NA	248	947	No Access	940	970	NA	130	27	78	20	<1	NA
Iron Total (HNO3 Digest)	5	ug/l	15300	27690	71610	65000	<5	NA	13870	335400	No Access	300000	430000	NA	14120	8239	268800	240000	19000	NA
Total Alkalinity as CaCO3	2	mg/l	335	310	355	360	33	NA	205	305	No Access	320	350	NA	275	950	410	770	360	NA
Potassium Dissolved	0.2	mg/l	0.6	0.3	0.3	0.5	2.3	NA	1.1	0.6	No Access	1.2	0.9	NA	2.3	1.7	3.0	2.1	1.8	NA
Sodium Dissolved	0.2	mg/l	36.8	36.8	34.5	41.0	3.2	NA	30.8	30.0	No Access	41	40	NA	72.0	84.0	108.8	110.0	130.0	NA
Nitrate as NO3	0.3	mg/l	0.3	1.1	0.5	<0.3	5.7	NA	<0.3	0.6	No Access	<0.3	<0.3	NA	<0.3	1.8	<0.3	0.3	2.5	NA
Sulphate (soluble)	3	mg/l	6	13	4	5	<3	NA	20	7	No Access	4	5	NA	19	26	37	32	42	NA
Chloride	1	mg/l	2	2	1	1	<1	NA	7	17	No Access	17	19	NA	3	2	2	2	2	NA
pH Value	1	pH units	8.03	7.29	8.73	8.51	7.76	NA	8.48	7.99	No Access	8.39	8.48	NA	8.07	8.27	8.54	8.40	8.32	NA

Location: **Borjomi.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BMW9 Baseline 08/09/05	BMW9 Round 1 21/06/06	BMW9 Round 2 25/10/06	BMW9 Round 3 08/08/07	BMW9 Round 4 02/10/07	BMW9 Round 5 19/06/08	BMW10 Baseline 06/09/05	BMW10 Round 1 21/07/06	BMW10 Round 2 25/10/06	BMW10 Round 3 08/08/07	BMW10 Round 4 02/10/07	BM W10 Round 5 18/06/08	BMW11 Baseline 06/09/05	BMW11 Round 1 21/06/06	BMW11 Round 2 25/10/06	BMW11 Round 3 08/08/07	BMW11 Round 4 02/10/07	BMW11 Round 5 18/06/08
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
p/m-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	67	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	18	<10	<10	160	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	300	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	18	<10	<10	520	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	18	<10	<10	520	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	1500	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	0.16	<0.01	<0.01	0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	0.02	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	0.024	<0.01	<0.01	0.037	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	0.075	<0.01	<0.01	0.24	0.025	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	0.035	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	0.134	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	0.054	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	0.135	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	0.15	0.018	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	0.595	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	0.055	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	0.79	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	0.12	0.017	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	0.172	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	0.045	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	0.251	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	0.203	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	0.014	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	0.082	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	0.066	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	0.125	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	0.027	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	2.553	<0.01	<0.01	<0.027	<0.027	<0.1	0.279	<0.01	<0.01	0.8	0.06	<0.1	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX																				
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ADDITIONAL																				
Calcium Dissolved	5	ug/l	112500	96160	90010	91000	92000	NA	27860	30680	43990	60000	48000	NA	5204	4291	6249	7200	9500	NA
Magnesium Dissolved	5	ug/l	22360	20490	20320	20000	19000	NA	24	5956	12630	16000	15000	NA	1175	977	1137	2000	2400	NA
Manganese Dissolved	1	ug/l	598	487	426	440	450	NA	<1	11	76	200	57	NA	9	6	8	2	19	NA
Iron Total (HNO3 Digest)	5	ug/l	2241	15000	2101	30000	19000	NA	810	110100	486200	11470000	58000	NA	336600	140700	265600	7900	540	NA
Total Alkalinity as CaCO3	2	mg/l	410	400	370	320	390	NA	230	270	805	27000.0	420.0	NA	515	325	295	140	120	NA
Potassium Dissolved	0.2	mg/l	0.8	1.4	1.4	1.4	1.5	NA	2.1	3.3	8.3	3.5	2.7	NA	48.0	33.8	2.9	2.1	1.8	NA
Sodium Dissolved	0.2	mg/l	35.8	37.5	35.3	45.0	47.0	NA	81.0	45.0	46.5	41.0	56.0	NA	75.0	73.5	78	42	43	NA
Nitrate as NO3	0.3	mg/l	<0.3	0.5	<0.3	<0.3	<0.3	NA	<0.3	0.3	<0.3	<0.3	1.7	NA	<0.3	0.5	<0.3	2	2.1	NA
Sulphate (soluble)	3	mg/l	17	15	16	16	15	NA	12	15	16	12	17	NA	17	15	12	8	8	NA
Chloride	1	mg/l	1	2	1	1	1	NA	1	<1	<1	2.00	<1	NA	1	<1.00	<1	2	<1	NA
pH Value	1	pH units	7.86	7.34	8.12	8.19	7.91	NA	11.47	8.50	8.33	8.21	8.27	NA	8.94	9.08	9.09	8.47	8.35	NA

Location: **Borjomi.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BSW1 Baseline 06/09/05	BSW1 Round 1 17/06/06	BSW1 Round 2 26/10/06	BSW1 Round 3 17/07/07	BSW1 Round 4 29/09/07	BSW1 Round 5 14/06/08	BSW2 Baseline 08/09/05	BSW2 Round 1 17/06/06	BSW2 Round 2 22/10/06	BSW2 Round 3 16/07/07	BSW2 Round 4 29/09/07	BSW2 Round 5 19/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
p/m-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Location: **Borjomi.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BSW3 Baseline 01/09/05	BSW3 Round 1 17/06/06	BSW3 Round 2 21/10/06	BSW3 Round 3 13/07/07	BSW3 Round 4 29/09/07	BSW3 Round 5 18/06/08	BSW4 Baseline 15/08/05	BSW4 Round 1 17/06/06	BSW4 Round 2 21/10/06	BSW4 Round 3 13/07/07	BSW4 Round 4 29/09/07	BSW4 Round 5 14/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
p/m-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	0.965	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	0.051	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	0.036	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	0.067	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	1.119	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Location: **Borjomi.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BSW5 Baseline 05/09/05	BSW5 Round 1 17/06/06	BSW5 Round 2 21/10/06	BSW5 Round 3 13/07/07	BSW5 Round 4 29/09/07	BSW5 Round 5 14/06/08	BSW6 Baseline 15/08/05	BSW6 Round 1 17/06/06	BSW6 Round 2 26/10/06	BSW6 Round 3 13/07/07	BSW6 Round 4 29/09/07	BSW6 Round 5 14/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
p/m-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	49	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	19	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	68	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	68	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Location: **Borjomi.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BSW7 Baseline 11/09/05	BSW7 Round 1 17/06/06	BSW7 Round 2 26/10/06	BSW7 Round 3 13/07/07	BSW7 Round 4 29/09/07	BSW7 Round 5 14/06/08	BSW8 Baseline 11/09/05	BSW8 Round 1 17/06/06	BSW8 Round 2 26/10/06	BSW8 Round 3 13/07/07	BSW8 Round 4 29/09/07	BSW8 Round 5 14/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
MTBE	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Benzene	10	ug/l	NA	No Access	No Access	No Access	No Access	No Access	NA	No Access	No Access	No Access	No Access	No Access
Toluene	10	ug/l	NA	No Access	No Access	No Access	No Access	No Access	NA	No Access	No Access	No Access	No Access	No Access
Ethylbenzene	10	ug/l	NA	No Access	No Access	No Access	No Access	No Access	NA	No Access	No Access	No Access	No Access	No Access
p/m-Xylene	10	ug/l	NA	No Access	No Access	No Access	No Access	No Access	NA	No Access	No Access	No Access	No Access	No Access
o-Xylene	10	ug/l	NA	No Access	No Access	No Access	No Access	No Access	NA	No Access	No Access	No Access	No Access	No Access
Aliphatics C5-C6	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aliphatics >C6-C8	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aliphatics >C8-C10	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aliphatics >C10-C12	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aliphatics >C12-C16	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aliphatics >C16-C21	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aliphatics >C21-C35	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Total Aliphatics C5-C35	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aromatics C6-C7	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aromatics >C7-C8	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aromatics >EC8-EC10	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aromatics >EC10-EC12	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aromatics >EC12-EC16	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aromatics >EC16-EC21	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Aromatics >EC21-EC35	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
Total Aromatics C6-C35	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
EPH (DRO) (C10-C40)	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
GRO (C4-C10)	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
GRO (C10-C12)	10	ug/l	<10	No Access	No Access	No Access	No Access	No Access	<10	No Access	No Access	No Access	No Access	No Access
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	0.176	No Access	No Access	No Access	No Access	No Access
Acenaphthylene	0.011	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	0.011	No Access	No Access	No Access	No Access	No Access
Acenaphthene	0.015	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	0.028	No Access	No Access	No Access	No Access	No Access
Fluorene	0.014	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	0.046	No Access	No Access	No Access	No Access	No Access
Phenanthrene	0.022	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	0.14	No Access	No Access	No Access	No Access	No Access
Anthracene	0.015	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	0.056	No Access	No Access	No Access	No Access	No Access
Fluoranthene	0.017	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	0.352	No Access	No Access	No Access	No Access	No Access
Pyrene	0.015	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	0.297	No Access	No Access	No Access	No Access	No Access
Benz(a)anthracene	0.017	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	<0.01	No Access	No Access	No Access	No Access	No Access
Chrysene	0.013	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	<0.01	No Access	No Access	No Access	No Access	No Access
Benzo(b)fluoranthene	0.023	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	<0.01	No Access	No Access	No Access	No Access	No Access
Benzo(k)fluoranthene	0.027	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	<0.01	No Access	No Access	No Access	No Access	No Access
Benzo(a)pyrene	0.009	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	<0.01	No Access	No Access	No Access	No Access	No Access
Indeno(123cd)pyrene	0.014	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	<0.01	No Access	No Access	No Access	No Access	No Access
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	<0.01	No Access	No Access	No Access	No Access	No Access
Benzo(ghi)perylene	0.016	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	<0.01	No Access	No Access	No Access	No Access	No Access
PAH 16 Total	0.027	ug/l	<0.01	No Access	No Access	No Access	No Access	No Access	1.106	No Access	No Access	No Access	No Access	No Access
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	No Access	No Access	No Access	No Access	No Access	NA	No Access	No Access	No Access	No Access	No Access
Benzene	1	ug/l	<1	No Access	No Access	No Access	No Access	No Access	<1	No Access	No Access	No Access	No Access	No Access
Toluene	1	ug/l	<1	No Access	No Access	No Access	No Access	No Access	<1	No Access	No Access	No Access	No Access	No Access
Ethylbenzene	1	ug/l	<1	No Access	No Access	No Access	No Access	No Access	<1	No Access	No Access	No Access	No Access	No Access
p/m-Xylene	1	ug/l	<1	No Access	No Access	No Access	No Access	No Access	<1	No Access	No Access	No Access	No Access	No Access
o-Xylene	1	ug/l	<1	No Access	No Access	No Access	No Access	No Access	<1	No Access	No Access	No Access	No Access	No Access

Location: **Borjomi.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	BSW9 Baseline 05/09/05	BSW9 Round 1 17/06/06	BSW9 Round 2 21/10/06	BSW9 Round 3 13/07/07	BSW9 Round 4 28/09/07	BSW9 Round 5 14/06/08
PETROLEUM HYDROCARBONS								
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10
Ethylbenzene	10	ug/l	<10	<10	<10	<10	<10	<10
p/m-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10
o-Xylene	10	ug/l	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS								
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX								
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTMW1 Baseline 21/09/05	KTMW1 Round 1 27/06/06	KTMW1 Round 2 31/10/06	KTMW1 Round 3 19/07/07	KTMW1 Round 4 03/10/07	KTMW1 Round 5 12/06/08	KTMW2 Baseline 09/09/05	KTMW2 Round 1 27/06/06	KTMW2 Round 2 31/10/06	KTMW2 Round 3 19/07/07	K TMW2 Round 4 03/10/07	KTMW2 Round 5 12/06/08	KTMW3 Baseline 22/09/05	KTMW3 Round 1 20/07/06	KTMW3 Round 2 31/10/06	KTMW3 Round 3 19/07/07	KTMW3 Round 4 03/10/07	KTMW3 Round 5 12/06/08
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	Dry	<10	<10	<10	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	233	Dry	<10	<10	NA	<10	No Access	<10	200	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	Dry	<10	<10	NA	<10	No Access	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	Dry	<10	<10	NA	<10	No Access	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	0.165	<0.01	Dry	<0.026	<0.026	<0.1	<0.01	No Access	NDP	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	0.012	<0.01	Dry	<0.011	<0.011	<0.011	<0.01	No Access	NDP	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	0.511	<0.01	Dry	<0.015	<0.015	<0.015	<0.01	No Access	NDP	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	0.485	<0.01	Dry	<0.014	<0.014	<0.014	<0.01	No Access	NDP	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	0.765	<0.01	Dry	<0.022	<0.022	<0.022	<0.01	No Access	NDP	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	0.082	<0.01	Dry	<0.015	<0.015	<0.015	<0.01	No Access	NDP	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	0.141	<0.01	Dry	<0.017	<0.017	<0.017	<0.01	No Access	NDP	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	0.087	<0.01	Dry	<0.015	<0.015	<0.015	<0.01	No Access	NDP	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	Dry	<0.017	<0.017	<0.017	<0.01	No Access	NDP	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	Dry	<0.013	<0.013	<0.013	<0.01	No Access	NDP	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	Dry	<0.023	<0.023	<0.023	<0.01	No Access	NDP	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	Dry	<0.027	<0.027	<0.027	<0.01	No Access	NDP	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	Dry	<0.009	<0.009	<0.009	<0.01	No Access	NDP	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	Dry	<0.014	<0.014	<0.014	<0.01	No Access	NDP	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	Dry	<0.016	<0.016	<0.016	<0.01	No Access	NDP	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	Dry	<0.016	<0.016	<0.016	<0.01	No Access	NDP	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	2.248	<0.01	Dry	<0.027	<0.027	<0.1	<0.01	No Access	NDP	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX																				
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	Dry	<1	<1	<2	NA	No Access	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	Dry	<1	<1	<1	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	Dry	<1	<1	<1	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	Dry	<1	<1	<2	<1	No Access	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	Dry	<1	<1	<2	<1	No Access	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	Dry	<1	<1	<1	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ADDITIONAL																				
Calcium Dissolved	5	ug/l	38860	37590	Dry	47000	60000	NA	61710	No Access	61110	45000	52000	NA	43670	4247	51580	47000	54000	NA
Magnesium Dissolved	5	ug/l	11010	10660	Dry	5500	8200	NA	14370	No Access	10450	11000	13000	NA	8195	829	8578	8200	8200	NA
Manganese Dissolved	1	ug/l	462	2714	Dry	5	2600	NA	282	No Access	402	310	1400	NA	-	53	498	560	400	NA
Iron Total (HNO3 Digest)	5	ug/l	109500	6652	Dry	8200	260000	NA	34900	No Access	84130	290000	180000	NA	-	179500	108600	150000	420000	NA
Total Alkalinity as CaCO3	2	mg/l	4000	165	Dry	160	190	NA	305	No Access	225	260	210	NA	125	145	110	140	130	NA
Potassium Dissolved	0.2	mg/l	0.2	1.7	Dry	0.5	0.6	NA	4.5	No Access	1.5	3.6	3.3	NA	1.5	1.5	1.7	2.0	1.8	NA
Sodium Dissolved	0.2	mg/l	6.6	7.1	Dry	4.7	6	NA	11.4	No Access	9.3	8.4	9.9	NA	15.8	17.3	19.5	21.0	26.0	NA
Nitrate as NO3	0.3	mg/l	<0.3	0.3	Dry	<0.3	0.5	NA	<0.3	No Access	0.6	1.9	1.6	NA	<0.3	<0.3	0.4	<0.3	<0.3	NA
Sulphate (soluble)	3	mg/l	3	<3	Dry	<3	<3	NA	7	No Access	5	3	4	NA	20	23	21	21	22	NA
Chloride	1	mg/l	1	<1	Dry	2	<1	NA	1	No Access	<1	2	5	NA	78	70	71	70	74	NA
pH Value	1	pH units	7.77	8.06	Dry	8.27	7.93	NA	8.43	No Access	8.44	7.89	8.12	NA	8.16	8.26	8.29	8.25	8.33	NA

Location: **Ktsia / Tabatskuri.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	KTMW4	KTMW4	KTMW4	KTMW4	KTMW4	KTMW4	KTMW5	KTMW5	KTMW5	KTMW5	K TMW5	KTMW5	KTMW6	KTMW6	KTMW6	KTMW6	KTMW6	KTMW6
		Date Sampled / Units	Baseline 25/09/05	Round 1 27/06/06	Round 2 31/10/06	Round 3 09/08/07	Round 4 03/10/07	Round 5	Baseline 25/09/05	Round 1 28/06/06	Round 2 31/10/06	Round 3 09/08/07	Round 4 03/10/07	Round 5 10/06/08	Baseline 25/09/05	Round 1 28/06/06	Round 2 01/11/06	Round 3 09/08/07	Round 4 03/10/07	Round 5
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
MTBE	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Benzene	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Toluene	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Ethyl benzene	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
m & p Xylene	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
o Xylene	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aliphatics C5-C6	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aliphatics >C6-C8	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aliphatics >C8-C10	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aliphatics >C10-C12	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aliphatics >C12-C16	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aliphatics >C16-C21	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aliphatics >C21-C35	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Total Aliphatics C5-C35	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aromatics C6-C7	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aromatics >C7-C8	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aromatics >EC8-EC10	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aromatics >EC10-EC12	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aromatics >EC12-EC16	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aromatics >EC16-EC21	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Aromatics >EC21-EC35	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
Total Aromatics C6-C35	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	<10	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	NA	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
GRO (C4-C10)	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	NA	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
GRO (C10-C12)	10	ug/l	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned	<10	<10	<10	<10	<10	NA	<10	<10	No Access	Decommissioned	Decommissioned	Decommissioned
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Acenaphthylene	0.011	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Acenaphthene	0.015	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Fluorene	0.014	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Phenanthrene	0.022	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Anthracene	0.015	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Fluoranthene	0.017	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Pyrene	0.015	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Chrysene	0.013	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
PAH 16 Total	0.027	ug/l	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	<0.01	<0.01	No Access	Decommissioned	Decommissioned	Decommissioned
BTEX																				
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	No Access	Decommissioned	Decommissioned	Decommissioned	NA	<1	<1	<1	<1	<2	NA	<1	No Access	Decommissioned	Decommissioned	Decommissioned
Benzene	1	ug/l	2	<1	No Access	Decommissioned	Decommissioned	Decommissioned	<1	<1	<1	<1	<1	<1	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned
Toluene	1	ug/l	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned	<1	<1	<1	<1	<1	<1	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned
Ethylbenzene	1	ug/l	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned	<1	<1	<1	<1	<1	<2	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned
p/m-Xylene	1	ug/l	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned	<1	<1	<1	<1	<1	<2	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned
o-Xylene	1	ug/l	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned	<1	<1	<1	<1	<1	<1	<1	<1	No Access	Decommissioned	Decommissioned	Decommissioned
ADDITIONAL																				
Calcium Dissolved	5	ug/l	58250	45140	No Access	Decommissioned	Decommissioned	Decommissioned	34810	33080	26730	18000	25000	NA	13870	14280	No Access	Decommissioned	Decommissioned	Decommissioned
Magnesium Dissolved	5	ug/l	16860	17130	No Access	Decommissioned	Decommissioned	Decommissioned	5349	6147	4017	3300	3700	NA	4003	3269	No Access	Decommissioned	Decommissioned	Decommissioned
Manganese Dissolved	1	ug/l	1049	1613	No Access	Decommissioned	Decommissioned	Decommissioned	74	311	126	2	3	NA	158	331	No Access	Decommissioned	Decommissioned	Decommissioned
Iron Total (HNO3 Digest)	5	ug/l	29820	55540	No Access	Decommissioned	Decommissioned	Decommissioned	34160	43510	6155	22000	100000	NA	40400	774900	No Access	Decommissioned	Decommissioned	Decommissioned
Total Alkalinity as CaCO3	2	mg/l	230	145	No Access	Decommissioned	Decommissioned	Decommissioned	115	175	100	110	100	NA	120	335	No Access	Decommissioned	Decommissioned	Decommissioned
Potassium Dissolved	0.2	mg/l	2.3	1.5	No Access	Decommissioned	Decommissioned	Decommissioned	1.8	1.7	2.3	2.6	2.6	NA	3.2	4.1	No Access	Decommissioned	Decommissioned	Decommissioned
Sodium Dissolved	0.2	mg/l	18.0	10.7	No Access	Decommissioned	Decommissioned	Decommissioned	6.0	5.1	5.1	5.7	3.9	NA	4.5	5.3	No Access	Decommissioned	Decommissioned	Decommissioned
Nitrate as NO3	0.3	mg/l	<0.3	<0.3	No Access	Decommissioned	Decommissioned	Decommissioned	3.2	2.3	3.0	3.3	2.3	NA	8.0	6.8	No Access	Decommissioned	Decommissioned	Decommissioned
Sulphate (soluble)	3	mg/l	39	<3	No Access	Decommissioned	Decommissioned	Decommissioned	5	4	3	4	3	NA	4	4	No Access	Decommissioned	Decommissioned	Decommissioned
Chloride	1	mg/l	16	<1	No Access	Decommissioned	Decommissioned	Decommissioned	4	3	3	4	3	NA	2	1	No Access	Decommissioned	Decommissioned	Decommissioned
pH Value	1	pH units	8.59	8.63	No Access	Decommissioned	Decommissioned	Decommissioned	8.35	8.00	8.29	8.32	7.95	NA	7.62	8.05	No Access	Decommissioned	Decommissioned	Decommissioned

Location: **Ktsia / Tabatskuri.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTMW7 Baseline 25/09/05	KTMW7 Round 1 28/06/06	KTMW7 Round 2 01/11/06	KTMW7 Round 3 11/08/07	KTMW7 Round 4 03/10/07	KTMW7 Round 5 11/06/08	KTMW8 Baseline 25/09/05	KTMW8 Round 1 28/06/06	KTMW8 Round 2 01/11/06	KTMW8 Round 3 09/08/07	K TMW8 Round 4 03/10/07	KTMW8 Round 5	KTMW9 Baseline 28/09/05	KTMW9 Round 1 28/06/06	KTMW9 Round 2 01/11/06	KTMW9 Round 3 09/08/07	KTMW9 Round 4 03/10/07	KTMW9 Round 5 11/06/08
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
MTBE	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Benzene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Toluene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Ethyl benzene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
m & p Xylene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
o Xylene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aliphatics C5-C6	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aliphatics >C6-C8	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aliphatics >C8-C10	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aliphatics >C10-C12	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aliphatics >C12-C16	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aliphatics >C16-C21	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aliphatics >C21-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Total Aliphatics C5-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aromatics C6-C7	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aromatics >C7-C8	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aromatics >EC8-EC10	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aromatics >EC10-EC12	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aromatics >EC12-EC16	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aromatics >EC16-EC21	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Aromatics >EC21-EC35	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
Total Aromatics C6-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	DRY
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	No Access	<10	<10	NA	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	NA
GRO (C4-C10)	10	ug/l	<10	<10	No Access	<10	<10	NA	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	NA
GRO (C10-C12)	10	ug/l	<10	<10	No Access	<10	<10	NA	<10	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<10	DRY	No Access	DRY	DRY	NA
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	<0.01	<0.01	No Access	<0.026	<0.026	<0.1	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Acenaphthylene	0.011	ug/l	<0.01	<0.01	No Access	<0.011	<0.011	<0.011	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Acenaphthene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Fluorene	0.014	ug/l	<0.01	<0.01	No Access	<0.014	<0.014	<0.014	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Phenanthrene	0.022	ug/l	<0.01	<0.01	No Access	<0.022	<0.022	<0.022	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Anthracene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Fluoranthene	0.017	ug/l	<0.01	<0.01	No Access	<0.017	<0.017	<0.017	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Pyrene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	No Access	<0.017	<0.017	<0.017	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Chrysene	0.013	ug/l	<0.01	<0.01	No Access	<0.013	<0.013	<0.013	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	No Access	<0.023	<0.023	<0.023	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	No Access	<0.027	<0.027	<0.027	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	No Access	<0.009	<0.009	<0.009	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	No Access	<0.014	<0.014	<0.014	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	No Access	<0.016	<0.016	<0.016	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	No Access	<0.016	<0.016	<0.016	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
PAH 16 Total	0.027	ug/l	<0.01	<0.01	No Access	<0.027	<0.027	<0.1	<0.01	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<0.01	DRY	No Access	DRY	DRY	DRY
BTEX																				
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	No Access	<1	<1	<2	NA	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	NA	DRY	No Access	DRY	DRY	DRY
Benzene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<1	DRY	No Access	DRY	DRY	DRY
Toluene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<1	DRY	No Access	DRY	DRY	DRY
Ethylbenzene	1	ug/l	<1	<1	No Access	<1	<1	<2	<1	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<1	DRY	No Access	DRY	DRY	DRY
p/m-Xylene	1	ug/l	<1	<1	No Access	<1	<1	<2	<1	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<1	DRY	No Access	DRY	DRY	DRY
o-Xylene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	<1	DRY	No Access	DRY	DRY	DRY
ADDITIONAL																				
Calcium Dissolved	5	ug/l	84750	47670	No Access	48000	36000	NA	56870	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	55220	DRY	No Access	DRY	DRY	DRY
Magnesium Dissolved	5	ug/l	16900	11790	No Access	12000	7800	NA	12060	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	8636	DRY	No Access	DRY	DRY	DRY
Manganese Dissolved	1	ug/l	255	16	No Access	1	1	NA	811	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	736	DRY	No Access	DRY	DRY	DRY
Iron Total (HNO3 Digest)	5	ug/l	19750	261800	No Access	33000	450000	NA	446	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	23270	DRY	No Access	DRY	DRY	DRY
Total Alkalinity as CaCO3	2	mg/l	300	110	No Access	160	140	NA	225	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	220	DRY	No Access	DRY	DRY	DRY
Potassium Dissolved	0.2	mg/l	1.8	1.5	No Access	1.5	1.5	NA	3.0	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	3.2	DRY	No Access	DRY	DRY	DRY
Sodium Dissolved	0.2	mg/l	30.0	13.4	No Access	9.6	8.3	NA	18.0	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	42.8	DRY	No Access	DRY	DRY	DRY
Nitrate as NO3	0.3	mg/l	1.1	1.1	No Access	1.6	2.3	NA	0.4	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	6.7	DRY	No Access	DRY	DRY	DRY
Sulphate (soluble)	3	mg/l	191	5	No Access	<3	<3	NA	6	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	104	DRY	No Access	DRY	DRY	DRY
Chloride	1	mg/l	2	<1	No Access	<1	<1	NA	7	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	10	DRY	No Access	DRY	DRY	DRY
pH Value	1	pH units	8.41	8.38	No Access	8.42	8.14	NA	8.64	No Access	No Access	Decommissioned	Decommissioned	Decommissioned	7.76	DRY	No Access	DRY	DRY	DRY

Location: **Ktsia / Tabatskuri.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTMW10 Baseline 28/09/05	KTMW10 Round 1 16/07/06	KTMW10a Round 1 24/07/06	KTMW10 Round 2 01/11/06	KTMW10 Round 3 30/07/07	KTMW10 Round 4 12/10/07	KTMW10 Round 5 10/06/08	KTMW11 Baseline 21/09/05	KT MW11 Round 1 20/07/06	KTMW11 Round 2 01/11/06	KTMW11 Round 3 09/08/07	KTMW11 Round 4 12/10/07	KTMW11 Round 5 12/06/08
PETROLEUM HYDROCARBONS															
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	16	<10	<10	<10	<10	<10	15	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	11	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	27	<10	<10	<10	<10	<10	15	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	27	<10	<10	<10	<10	<10	15	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	<10	NA	<10	<10	NDP	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS															
Naphthalene	0.026	ug/l	<0.01	0.744	2.647	<0.01	<0.026	<0.026	<0.1	<0.01	<0.01	NDP	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	0.036	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	NDP	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	0.09	0.059	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	NDP	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	0.052	0.047	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	NDP	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	0.096	0.068	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	NDP	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	0.015	0.019	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	NDP	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	NDP	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	NDP	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	NDP	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	NDP	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	NDP	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	NDP	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.02	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	NDP	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.03	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	NDP	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.04	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	NDP	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.05	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	NDP	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.06	1.033	2.84	<0.01	<0.027	<0.027	<0.1	<0.01	<0.01	NDP	<0.027	<0.027	<0.1

Location: **Ktsia / Tabatskuri.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTMW10 Baseline 28/09/05	KTMW10 Round 1 16/07/06	KTMW10a Round 1 24/07/06	KTMW10 Round 2 01/11/06	KTMW10 Round 3 30/07/07	KTMW10 Round 4 12/10/07	KTMW10 Round 5 10/06/08	KTMW11 Baseline 21/09/05	KT MW11 Round 1 20/07/06	KTMW11 Round 2 01/11/06	KTMW11 Round 3 09/08/07	KTMW11 Round 4 12/10/07	KTMW11 Round 5 12/06/08
BTEX															
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ADDITIONAL															
Calcium Dissolved	5	ug/l	43680	50020	44430	38110	37000	33000	NA	24330	2135	23530	17000	19000	NA
Magnesium Dissolved	5	ug/l	7672	7604	7444	5531	5400	4800	NA	3181	262	2804	2300	2600	NA
Manganese Dissolved	1	ug/l	877	229	155	117	<1	2	NA	49	<1	<1	<1	<1	NA
Iron Total (HNO3 Digest)	5	ug/l	22880	8938	52860	12550	33000	36000	NA	-	9965	326500	1500	4400	NA
Total Alkalinity as CaCO3	2	mg/l	190	175	225	160	140	160	NA	105	85	105	85	75	NA
Potassium Dissolved	0.2	mg/l	0.9	0.9	0.6	0.6	0.6	0.8	NA	0.5	0.5	1.5	0.6	0.5	NA
Sodium Dissolved	0.2	mg/l	13.8	11.1	13.1	11.0	13.0	12.0	NA	5.6	7.7	7.4	7.2	7.5	NA
Nitrate as NO3	0.3	mg/l	1.2	1.0	0.7	2.0	1.5	1.1	NA	5.2	5.0	5.7	6.2	5.3	NA
Sulphate (soluble)	3	mg/l	10	<3	<3	<3	<3	<3	NA	4	<3	<3	<3	17	NA
Chloride	1	mg/l	1	1	<1	<1	<1	<1	NA	1	<1	<1	1	<1	NA
pH Value	1	pH units	7.38	8.45	8.19	8.16	7.31	8.34	NA	8.01	7.91	7.87	8.28	8.22	NA

Location: **Ktsia / Tabatskuri.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTMW12 Baseline 21/09/05	KTMW12 Round 1 20/07/06	KTMW12 Round 2 01/11/06	KTMW12 Round 3 09/08/07	KTMW12 Round 4 12/10/07	KTMW12 Round 5 12/06/08	KTMW13 Baseline 25/09/05	KTMW13 Round 1 16/07/06	KTM W13 Round 2 01/11/06	KTMW13 Round 3 30/07/07	KTMW13 Round 4 09/10/07	KTMW13 Round 5 13/06/08	KTMW14 Baseline 22/09/05	KTMW14 Round 1 16/07/06	KTMW14 Round 2 01/11/06	KTMW14 Round 3 30/07/07	KTMW14 Round 4 05/10/07	KTMW14 Round 5 13/06/08
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	12	<10	<10	<10	<10	<10	17	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	16	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	12	<10	<10	<10	<10	<10	33	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	No Access	<10	<10	<10	<10	<10	<10	12	<10	<10	<10	<10	<10	33	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	No Access	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	NDP	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	No Access	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	No Access	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	<0.01	No Access	<0.01	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	0.068	<0.026	<0.1	<0.01	<0.01	NDP	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	No Access	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	NDP	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	No Access	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	NDP	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	No Access	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	NDP	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	No Access	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	NDP	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	No Access	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	NDP	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	No Access	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	NDP	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	No Access	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	NDP	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	No Access	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	NDP	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	No Access	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	NDP	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	No Access	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	NDP	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	No Access	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	NDP	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	No Access	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	NDP	<0.009	0.010	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	No Access	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	NDP	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	No Access	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	NDP	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	No Access	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	NDP	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	No Access	<0.01	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	0.068	<0.027	<0.1	<0.01	<0.01	NDP	<0.027	<0.027	<0.1
BTEX																				
Methyl Tertiary Butyl Ether	1	ug/l	NA	No Access	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	No Access	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	No Access	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ADDITIONAL																				
Calcium Dissolved	5	ug/l	37570	No Access	27490	23000	26000	NA	62460	17400	28670	37000	41000	NA	69570	65260	29260	63000	58000	NA
Magnesium Dissolved	5	ug/l	7022	No Access	5379	5000	5700	NA	3612	1033	1169	1500	1500	NA	10130	9066	7961	8400	8500	NA
Manganese Dissolved	1	ug/l	497	No Access	373	640	640	NA	246	<1	4	<1	<1	NA	133	<1	<1	6	<1	NA
Iron Total (HNO3 Digest)	5	ug/l	-	No Access	25220	390000	330000	NA	17740	22670	43390	8800	51000	NA	-	31170	646900	36000	110000	NA
Total Alkalinity as CaCO3	2	mg/l	130	No Access	125	210	180	NA	175	60	100	120	130	NA	170	235	145	180	340	NA
Potassium Dissolved	0.2	mg/l	1.5	No Access	1.5	1.4	1.2	NA	1.1	1.2	0.6	0.6	2.7	NA	0.9	0.5	1.1	1.5	1.5	NA
Sodium Dissolved	0.2	mg/l	30.0	No Access	9.8	13	9.8	NA	5.4	3.5	3.9	4.2	7.1	NA	33.0	15.0	5.7	22.0	21.0	NA
Nitrate as NO3	0.3	mg/l	<0.3	No Access	1.5	<0.3	1	NA	0.3	0.3	1.1	0.8	0.8	NA	7.0	1.9	2.0	2.2	1.9	NA
Sulphate (soluble)	3	mg/l	91	No Access	-	4	<3	NA	7	<3	<3	<3	<3	NA	127	<3	<3	<3	<3	NA
Chloride	1	mg/l	1	No Access	<1	1	<1	NA	<1.00	<1	<1	<1	<1	NA	2	1	<1	4	1	NA
pH Value	1	pH units	8.25	No Access	8.27	8.07	7.99	NA	8.54	7.72	7.78	7.65	7.88	NA	8.34	8.27	8.28	7.85	8.27	NA

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW1 Baseline 21/09/05	KTSW1 Round 1 27/06/06	KTSW1 Round 2 29/10/06	KTSW1 Round 3 19/07/07	KTSW1 Round 4 03/10/07	KTSW1 Round 5 12/06/08	KTSW2 Baseline 21/09/05	KTSW2 Round 1 19/07/06	KTSW2 Round 2 29/10/06	KTSW2 Round 3 19/07/07	K TSW2 Round 4 03/10/07	KTSW2 Round 5 12/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	240	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	0.217	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	0.217	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW3 Baseline 28/09/05	KTSW3 Round 1 19/07/06	KTSW3 Round 2 29/10/06	KTSW3 Round 3 09/08/07	KTSW3 Round 4 8/10/07	KTSW3 Round 5 07/06/08	KTSW4 Baseline 10/09/05	KTSW4 Round 1 26/06/06	KTSW4 Round 2 29/10/06	KTSW4 Round 3 09/08/07	K TSW4 Round 4 08/10/07	KTSW4 Round 5 07/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
MTBE	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Benzene	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Toluene	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Ethyl benzene	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
m & p Xylene	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
o Xylene	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aliphatics C5-C6	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aliphatics >C6-C8	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aliphatics >C8-C10	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aliphatics >C10-C12	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aliphatics >C12-C16	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
Aliphatics >C16-C21	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
Aliphatics >C21-C35	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
Total Aliphatics C5-C35	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
Aromatics C6-C7	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aromatics >C7-C8	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aromatics >EC8-EC10	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aromatics >EC10-EC12	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	<10	<10	DRY	DRY	<10
Aromatics >EC12-EC16	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
Aromatics >EC16-EC21	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
Aromatics >EC21-EC35	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
Total Aromatics C6-C35	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	DRY	DRY	<10	DRY	<10	insufficient sample	insufficient sample	<10	DRY	DRY	<10
EPH (DRO) (C10-C40)	10	ug/l	DRY	DRY	DRY	<10	DRY	NA	insufficient sample	insufficient sample	<10	DRY	DRY	NA
GRO (C4-C10)	10	ug/l	DRY	DRY	DRY	<10	DRY	NA	<10	<10	<10	DRY	DRY	NA
GRO (C10-C12)	10	ug/l	DRY	DRY	DRY	<10	DRY	NA	<10	<10	<10	DRY	DRY	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	DRY	DRY	<0.026	DRY	<0.1	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.1
Acenaphthylene	0.011	ug/l	DRY	DRY	DRY	<0.011	DRY	<0.011	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.011
Acenaphthene	0.015	ug/l	DRY	DRY	DRY	<0.015	DRY	<0.015	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.015
Fluorene	0.014	ug/l	DRY	DRY	DRY	<0.014	DRY	<0.014	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.014
Phenanthrene	0.022	ug/l	DRY	DRY	DRY	<0.022	DRY	<0.022	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.022
Anthracene	0.015	ug/l	DRY	DRY	DRY	<0.015	DRY	<0.015	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.015
Fluoranthene	0.017	ug/l	DRY	DRY	DRY	<0.017	DRY	<0.017	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.017
Pyrene	0.015	ug/l	DRY	DRY	DRY	<0.015	DRY	<0.015	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.015
Benz(a)anthracene	0.017	ug/l	DRY	DRY	DRY	<0.017	DRY	<0.017	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.017
Chrysene	0.013	ug/l	DRY	DRY	DRY	<0.013	DRY	<0.013	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.013
Benzo(b)fluoranthene	0.023	ug/l	DRY	DRY	DRY	<0.023	DRY	<0.023	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.023
Benzo(k)fluoranthene	0.027	ug/l	DRY	DRY	DRY	<0.027	DRY	<0.027	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.027
Benzo(a)pyrene	0.009	ug/l	DRY	DRY	DRY	<0.009	DRY	<0.009	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.009
Indeno(123cd)pyrene	0.014	ug/l	DRY	DRY	DRY	<0.014	DRY	<0.014	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	DRY	DRY	DRY	<0.016	DRY	<0.016	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.016
Benzo(ghi)perylene	0.016	ug/l	DRY	DRY	DRY	<0.016	DRY	<0.016	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.016
PAH 16 Total	0.027	ug/l	DRY	DRY	DRY	<0.027	DRY	<0.1	insufficient sample	insufficient sample	<0.01	DRY	DRY	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	DRY	DRY	DRY	<1	DRY	<2	NA	<1	<1	DRY	DRY	<2
Benzene	1	ug/l	DRY	DRY	DRY	<1	DRY	<1	<1	<1	<1	DRY	DRY	<1
Toluene	1	ug/l	DRY	DRY	DRY	<1	DRY	<1	<1	<1	<1	DRY	DRY	<1
Ethylbenzene	1	ug/l	DRY	DRY	DRY	<1	DRY	<2	<1	<1	<1	DRY	DRY	<2
p/m-Xylene	1	ug/l	DRY	DRY	DRY	<1	DRY	<2	<1	<1	<1	DRY	DRY	<2
o-Xylene	1	ug/l	DRY	DRY	DRY	<1	DRY	<1	<1	<1	<1	DRY	DRY	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW5 Baseline 10/09/05	KTSW5 Round 1 26/06/06	KTSW5 Round 2 29/10/06	KTSW5 Round 3 09/08/07	KTSW5 Round 4 12/10/07	KTSW5 Round 5 07/06/08	KTSW6 Baseline 10/09/05	KTSW6 Round 1 26/06/06	KTSW6 Round 2 29/10/06	KTSW6 Round 3 09/08/07	K TSW6 Round 4 08/10/07	KTSW6 Round 5 10/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	11	DRY	<10	DRY	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	11	DRY	<10	DRY	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	DRY	<10	DRY	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	11	DRY	<10	DRY	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	<10	DRY	<10	DRY	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	<10	DRY	<10	DRY	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	<10	DRY	<10	DRY	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	DRY	<0.01	DRY	<0.026	DRY	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	DRY	<0.01	DRY	<0.011	DRY	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	DRY	<0.015	DRY	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	<0.01	DRY	<0.014	DRY	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	DRY	<0.01	DRY	<0.022	DRY	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	DRY	<0.015	DRY	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	<0.01	DRY	<0.017	DRY	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	DRY	<0.015	DRY	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	<0.01	DRY	<0.017	DRY	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	DRY	<0.01	DRY	<0.013	DRY	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	DRY	<0.01	DRY	<0.023	DRY	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	DRY	<0.01	DRY	<0.027	DRY	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	DRY	<0.01	DRY	<0.009	DRY	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	<0.01	DRY	<0.014	DRY	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	<0.01	DRY	<0.016	DRY	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	<0.01	DRY	<0.016	DRY	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	DRY	<0.01	DRY	<0.027	DRY	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	DRY	<1	DRY	<1	DRY	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	DRY	<1	DRY	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	DRY	<1	DRY	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	<1	DRY	<1	DRY	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	<1	DRY	<1	DRY	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	DRY	<1	DRY	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW7 Baseline 28/09/05	KTSW7 Round 1 26/06/06	KTSW7 Round 2 29/10/06	KTSW7 Round 3 09/08/07	KTSW7 Round 4 08/10/07	KTSW7 Round 5 10/06/08	KTSW8 Baseline 25/09/05	KTSW8 Round 1 26/06/06	KTSW8 Round 2 29/10/06	KTSW8 Round 3 09/08/07	K TSW8 Round 4 09/10/07	KTSW8 Round 5 07/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	DRY	10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	DRY	10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	DRY	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	DRY	<10	<10	<10	DRY	NA	<10	161	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	DRY	<10	<10	<10	DRY	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	DRY	<10	<10	<10	DRY	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	<0.01	<0.01	<0.026	DRY	<0.1	<0.01	0.088	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	DRY	<0.01	<0.01	<0.011	DRY	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	DRY	<0.01	<0.01	<0.015	DRY	<0.015	<0.01	0.02	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	DRY	<0.01	<0.01	<0.014	DRY	<0.014	<0.01	0.057	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	DRY	<0.01	<0.01	<0.022	DRY	<0.022	<0.01	0.058	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	DRY	<0.01	<0.01	<0.015	DRY	<0.015	<0.01	0.014	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	DRY	<0.01	<0.01	<0.017	DRY	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	DRY	<0.01	<0.01	<0.015	DRY	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	DRY	<0.01	<0.01	<0.017	DRY	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	DRY	<0.01	<0.01	<0.013	DRY	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	DRY	<0.01	<0.01	<0.023	DRY	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	DRY	<0.01	<0.01	<0.027	DRY	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	DRY	<0.01	<0.01	<0.009	DRY	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	DRY	<0.01	<0.01	<0.014	DRY	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	DRY	<0.01	<0.01	<0.016	DRY	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	DRY	<0.01	<0.01	<0.016	DRY	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	DRY	<0.01	<0.01	<0.027	DRY	<0.1	<0.01	0.237	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	DRY	<1	<1	<1	DRY	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	DRY	<1	<1	<1	DRY	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	DRY	<1	<1	<1	DRY	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	DRY	<1	<1	<1	DRY	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	DRY	<1	<1	<1	DRY	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	DRY	<1	<1	<1	DRY	<1	<1	<1	<1	<1	<1	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW11 Baseline 27/09/05	KTSW11 Round 1 15/07/06	KTSW11 Round 2 28/10/06	KTSW11 Round 3 24/08/07	KTSW11 Round 4 08/10/07	KTSW11 Round 5 11/06/08	KTSW12 Baseline 29/09/05	KTSW12 Round 1 17/07/06	KTS W12 Round 2 29/10/06	KTSW12 Round 3 30/07/07	KTSW12 Round 4 06/10/07	KTSW12 Round 5 12/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
MTBE	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Benzene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Toluene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Ethyl benzene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
m & p Xylene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
o Xylene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	DRY	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	DRY	DRY	NA	<10	<10	<10	<10	DRY	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	DRY	DRY	NA	<10	<10	<10	<10	DRY	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	DRY	DRY	NA	<10	<10	<10	<10	DRY	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.1	<0.01	<0.01	<0.01	<0.026	DRY	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.011	<0.01	<0.01	<0.01	<0.011	DRY	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.015	<0.01	<0.01	<0.01	<0.015	DRY	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.014	<0.01	<0.01	<0.01	<0.014	DRY	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.022	<0.01	<0.01	<0.01	<0.022	DRY	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.015	<0.01	<0.01	<0.01	<0.015	DRY	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.017	<0.01	<0.01	<0.01	<0.017	DRY	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.015	<0.01	<0.01	<0.01	<0.015	DRY	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.017	<0.01	<0.01	<0.01	<0.017	DRY	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.013	<0.01	<0.01	<0.01	<0.013	DRY	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.023	<0.01	<0.01	<0.01	<0.023	DRY	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.027	<0.01	<0.01	<0.01	<0.027	DRY	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.009	<0.01	<0.01	<0.01	<0.009	DRY	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.014	<0.01	<0.01	<0.01	<0.014	DRY	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.016	<0.01	<0.01	<0.01	<0.016	DRY	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.016	<0.01	<0.01	<0.01	<0.016	DRY	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.1	<0.01	<0.01	<0.01	<0.027	DRY	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	DRY	DRY	<2	NA	<1	<1	<1	DRY	<2
Benzene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	DRY	<1
Toluene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	DRY	<1
Ethylbenzene	1	ug/l	<1	<1	<1	DRY	DRY	<2	<1	<1	<1	<1	DRY	<2
p/m-Xylene	1	ug/l	<1	<1	<1	DRY	DRY	<2	<1	<1	<1	<1	DRY	<2
o-Xylene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	DRY	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW9 Baseline 22/09/05	KTSW9 Round 1 15/07/06	KTSW9 Round 2 29/10/06	KTSW9 Round 3 09/08/07	KTSW9 Round 4 09/10/07	KTSW9 Round 5 11/06/08	KTSW10 Baseline 27/09/05	KTSW10 Round 1 15/07/06	KTSW10 Round 2 28/10/06	KTS W10 Round 3 30/07/07	KTSW10 Round 4 08/10/07	KTSW10 Round 5 11/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	<10	<10	DRY	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	<10	<10	<10	DRY	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	<10	<10	<10	DRY	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	<10	<10	<10	DRY	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	DRY	<0.01	<0.01	<0.026	DRY	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	DRY	<0.01	<0.01	<0.011	DRY	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	<0.01	<0.015	DRY	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	<0.01	<0.01	<0.014	DRY	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	DRY	<0.01	<0.01	<0.022	DRY	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	<0.01	<0.015	DRY	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	<0.01	<0.01	<0.017	DRY	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	<0.01	<0.015	DRY	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	<0.01	<0.01	<0.017	DRY	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	DRY	<0.01	<0.01	<0.013	DRY	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	DRY	<0.01	<0.01	<0.023	DRY	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	DRY	<0.01	<0.01	<0.027	DRY	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	DRY	<0.01	<0.01	<0.009	DRY	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	<0.01	<0.01	<0.014	DRY	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	<0.01	<0.01	<0.016	DRY	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	<0.01	<0.01	<0.016	DRY	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	DRY	<0.01	<0.01	<0.027	DRY	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	DRY	<1	<1	<1	DRY	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	<1	<1	DRY	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	<1	<1	DRY	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	<1	<1	<1	DRY	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	<1	<1	<1	DRY	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	<1	<1	DRY	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW13 Baseline 28/09/05	KTSW13 Round 1 17/07/06	KTSW13 Round 2 28/10/06	KTSW13 Round 3 25/07/08	KTSW13 Round 4 06/10/07	KTSW13 Round 5 13/06/08	KTSW14 Baseline 27/09/05	KTSW14 Round 1 17/07/06	KTS W14 Round 2 28/10/06	KTSW14 Round 3 30/07/07	KTSW14 Round 4 06/10/07	KTSW14 Round 5 13/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
MTBE	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Benzene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Toluene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
o Xylene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	Sample Broken	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	DRY	DRY	<10	DRY	DRY	NA	Sample Broken	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	DRY	DRY	<10	DRY	DRY	NA	Sample Broken	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	DRY	DRY	<10	DRY	DRY	NA	Sample Broken	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.1	Sample Broken	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.011	Sample Broken	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.015	Sample Broken	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.014	Sample Broken	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.022	Sample Broken	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.015	Sample Broken	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.017	Sample Broken	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.015	Sample Broken	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.017	Sample Broken	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.013	Sample Broken	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.023	Sample Broken	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.027	Sample Broken	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.009	Sample Broken	<0.01	<0.01	<0.009	0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.014	Sample Broken	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.016	Sample Broken	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.016	Sample Broken	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	DRY	DRY	<0.01	DRY	DRY	<0.1	Sample Broken	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	DRY	DRY	<1	DRY	DRY	<2	Sample Broken	<1	<1	<1	<1	<2
Benzene	1	ug/l	DRY	DRY	<1	DRY	DRY	<1	Sample Broken	<1	<1	<1	<1	<1
Toluene	1	ug/l	DRY	DRY	<1	DRY	DRY	<1	Sample Broken	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	<2	Sample Broken	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	DRY	DRY	<1	DRY	DRY	<2	Sample Broken	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	DRY	DRY	<1	DRY	DRY	<1	Sample Broken	<1	<1	<1	<1	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW15 Baseline 09/09/05	KTSW15 Round 1 17/07/06	KTSW15 Round 2 28/10/06	KTSW15 Round 3 30/07/07	KTSW15 Round 4 06/10/07	KTSW15 Round 5 13/06/08	KTSW16 Baseline 10/09/05	KTSW16 Round 1 17/07/06	KTS W16 Round 2 28/10/06	KTSW16 Round 3 30/07/07	KTSW16 Round 4 06/10/07	KTSW16 Round 5 13/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	insufficient sample	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	insufficient sample	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	insufficient sample	<0.01	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	insufficient sample	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	insufficient sample	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	insufficient sample	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	insufficient sample	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	insufficient sample	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	insufficient sample	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	insufficient sample	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	insufficient sample	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	insufficient sample	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	insufficient sample	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	insufficient sample	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	insufficient sample	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	insufficient sample	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	insufficient sample	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	insufficient sample	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	insufficient sample	<0.01	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Location: **Ktsia / Tabatskuri.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTSW17 Round 3 09/08/07	KTSW17 Round 4 03/10/07	KTSW17 Round 5 11/06/08	KTSW18 Round 3 09/08/07	KTSW18 Round 4 12/10/07	KTSW18 Round 5 11/06/08	KTSW19 Round 3 09/08/07	KTSW19 Round 4 12/10/07	KTS W19 Round 5 11/06/08
PETROLEUM HYDROCARBONS											
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	NA	<10	<10	NA	DRY	DRY	DRY
GRO (C4-C10)	10	ug/l	<10	<10	NA	<10	<10	NA	DRY	DRY	DRY
GRO (C10-C12)	10	ug/l	<10	<10	NA	<10	<10	NA	DRY	DRY	DRY
POLYCYCLIC AROMATIC HYDROCARBONS											
Naphthalene	0.026	ug/l	<0.026	<0.026	<0.1	<0.026	<0.026	<0.1	DRY	DRY	DRY
Acenaphthylene	0.011	ug/l	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	DRY	DRY	DRY
Acenaphthene	0.015	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	DRY	DRY	DRY
Fluorene	0.014	ug/l	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	DRY	DRY	DRY
Phenanthrene	0.022	ug/l	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	DRY	DRY	DRY
Anthracene	0.015	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	DRY	DRY	DRY
Fluoranthene	0.017	ug/l	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	DRY	DRY	DRY
Pyrene	0.015	ug/l	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	DRY	DRY	DRY
Benz(a)anthracene	0.017	ug/l	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	DRY	DRY	DRY
Chrysene	0.013	ug/l	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	DRY	DRY	DRY
Benzo(b)fluoranthene	0.023	ug/l	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	DRY	DRY	DRY
Benzo(k)fluoranthene	0.027	ug/l	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	DRY	DRY	DRY
Benzo(a)pyrene	0.009	ug/l	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	DRY	DRY	DRY
Indeno(123cd)pyrene	0.014	ug/l	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	DRY	DRY	DRY
Dibenzo(ah)anthracene	0.016	ug/l	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	DRY	DRY	DRY
Benzo(ghi)perylene	0.016	ug/l	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	DRY	DRY	DRY
PAH 16 Total	0.027	ug/l	<0.027	<0.027	<0.1	<0.027	<0.027	<0.1	DRY	DRY	DRY
BTEX											
Methyl Tertiary Butyl Ether	1	ug/l	<1	<1	<2	<1	<1	<2	DRY	DRY	DRY
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	DRY
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	DRY
Ethylbenzene	1	ug/l	<1	<1	<2	<1	<1	<2	DRY	DRY	DRY
p/m-Xylene	1	ug/l	<1	<1	<2	<1	<1	<2	DRY	DRY	DRY
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	DRY

Location: **Ktsia / Tabatskuri.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	KTMW15 Baseline 22/09/05	KTMW15 Round 1 29/06/06	KTMW15 Round 2 01/11/06	KTMW15 Round 3 30/07/07	KTMW15 Round 4 05/10/07	KTMW15 Round 5 13/06/08	KTMW16a Baseline 27/09/05	KTMW16a Round 1 17/07/06	K TMW16a Round 2 02/11/06	KTMW16a Round 3 30/07/07	KTMW16a Round 4 06/10/07	KTMW16a Round 5 13/06/08	KTMW17 Baseline 27/09/05	KTMW17 Round 1 17/07/06	KTMW17 Round 2 02/11/06	KTMW17 Round 3 11/08/07	KTMW17 Round 4 10/10/07	KTMW17 Round 5 13/06/08
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	12	<10	<10	DRY	<10	<10	11	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	12	<10	<10	DRY	<10	<10	11	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	12	<10	<10	DRY	<10	<10	11	<10	<10	<10	<10	No Access	No Access	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	NA	<10	No Access	No Access	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	NA	<10	No Access	No Access	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	DRY	<10	<10	<10	<10	<10	NA	<10	No Access	No Access	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	0.048	<0.01	0.08	<0.026	<0.026	DRY	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	<0.01	No Access	No Access	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	0.01	<0.01	0.01	<0.011	<0.011	DRY	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	No Access	No Access	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	0.099	<0.01	0.01	<0.015	<0.015	DRY	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	No Access	No Access	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	0.087	<0.01	0.01	<0.014	<0.014	DRY	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	No Access	No Access	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	0.545	<0.01	0.04	<0.022	<0.022	DRY	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	No Access	No Access	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	0.034	<0.01	0.01	<0.015	<0.015	DRY	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	No Access	No Access	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	0.789	<0.01	0.03	<0.017	<0.017	DRY	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	No Access	No Access	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	0.613	<0.01	0.05	<0.015	<0.015	DRY	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	No Access	No Access	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	0.093	<0.01	<0.01	<0.017	<0.017	DRY	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	No Access	No Access	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	0.15	<0.01	<0.01	<0.013	0.013	DRY	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	No Access	No Access	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	0.039	<0.01	<0.01	<0.023	<0.023	DRY	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	No Access	No Access	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	0.025	<0.01	<0.01	<0.027	<0.027	DRY	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	No Access	No Access	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	0.154	<0.01	<0.01	<0.009	<0.009	DRY	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	No Access	No Access	<0.009	0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	DRY	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	No Access	No Access	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	DRY	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	No Access	No Access	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	DRY	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	No Access	No Access	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	2.686	<0.01	0.24	<0.027	<0.027	DRY	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	<0.01	No Access	No Access	<0.027	<0.027	<0.1
BTEX																				
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	DRY	NA	<1	<1	<1	<1	<2	NA	No Access	No Access	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	DRY	<1	<1	<1	<1	<1	<1	<1	No Access	No Access	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	DRY	<1	<1	<1	<1	<1	<1	<1	No Access	No Access	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	DRY	<1	<1	<1	<1	<1	<2	<1	No Access	No Access	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	DRY	<1	<1	<1	<1	<1	<2	<1	No Access	No Access	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	DRY	<1	<1	<1	<1	<1	<1	<1	No Access	No Access	<1	<1	<1
ADDITIONAL																				
Calcium Dissolved	5	ug/l	9608	8964	4521	52000	51000	DRY	44490	32580	30820	31000	28000	NA	32470	No Access	No Access	3900	41000	NA
Magnesium Dissolved	5	ug/l	2318	2028	870	7500	7700	DRY	16560	8281	7921	7900	7600	NA	9018	No Access	No Access	1500	16000	NA
Manganese Dissolved	1	ug/l	75	14	13	84	2	DRY	85	<1	2	5	<1	NA	189	No Access	No Access	<1	12	NA
Iron Total (HNO3 Digest)	5	ug/l	-	138200	165000	22000	120000	DRY	5102	15150	41430	17000	4300	NA	2300	No Access	No Access	36000	49000	NA
Total Alkalinity as CaCO3	2	mg/l	1100	205	495	240	470	DRY	180	140	140	130	120	NA	195	No Access	No Access	200	200	NA
Potassium Dissolved	0.2	mg/l	1.5	1.4	5.6	3.6	2.9	DRY	1.1	0.9	1.1	1.2	1.1	NA	0.2	No Access	No Access	0.3	0.3	NA
Sodium Dissolved	0.2	mg/l	97.5	88.5	247.5	78.0	74.0	DRY	7.2	4.5	5.4	5.9	6.0	NA	11.4	No Access	No Access	11	15	NA
Nitrate as NO3	0.3	mg/l	5.1	5.9	4.2	17.0	9.5	DRY	1.2	5.4	2.1	2.0	2.2	NA	<0.3	No Access	No Access	0.4	0.3	NA
Sulphate (soluble)	3	mg/l	3	14	83	12	15	DRY	<3	<3	<3	<3	<3	NA	<3	No Access	No Access	<3	7	NA
Chloride	1	mg/l	1	1	3	6	5	DRY	1	1	<1	<1	<1	NA	<1	No Access	No Access	<1	<1	NA
pH Value	1	pH units	8.53	8.58	8.83	7.84	8.27	DRY	7.84	8.41	8.40	7.96	8.19	NA	7.76	No Access	No Access	8.58	8.45	NA

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW1 Baseline 17/08/05	TMW1 Round 1 08/07/06	TMW1 Round 2 10/11/06	TMW1 Round 3 31/07/07	TMW1 Round 4 18/10/07	TMW1 Round 5 21/06/08	TMW2 Baseline 31/08/05	TMW2 Round 1 08/07/06	TMW2 Round 2 11/11/06	TMW2 Round 3 06/08/07	TMW2 Round 4 19/10/07	TMW2 Round 5 21/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	DRY	DRY	DRY	DRY
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	DRY	DRY	DRY	DRY	DRY
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	DRY	DRY	DRY	DRY	DRY
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	DRY	DRY	DRY	DRY	DRY
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	DRY	DRY	DRY	DRY	DRY	DRY
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	DRY	DRY	DRY	DRY	DRY	DRY
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	DRY	DRY	DRY	DRY	DRY
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	DRY	DRY	DRY	DRY	DRY
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	DRY	DRY	DRY	DRY	DRY	DRY
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	DRY	DRY	DRY	DRY	DRY
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	DRY	DRY	DRY	DRY	DRY
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	DRY	DRY	DRY	DRY	DRY
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	DRY	DRY	DRY	DRY	DRY
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	DRY	DRY	DRY	DRY	DRY	DRY
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	DRY	DRY	DRY	DRY	DRY	DRY
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	DRY	DRY	DRY	DRY	DRY	DRY
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	DRY	DRY	DRY	DRY	DRY	DRY
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	DRY	DRY	DRY	DRY	DRY
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	DRY	DRY	DRY	DRY	DRY
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	DRY	DRY	DRY	DRY	DRY
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	DRY	DRY	DRY	DRY	DRY	DRY
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	DRY	DRY	DRY	DRY	DRY	DRY
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	DRY	DRY	DRY	DRY
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	DRY	DRY	DRY	DRY
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	DRY	DRY	DRY	DRY	DRY
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	DRY	DRY	DRY	DRY	DRY
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	DRY	DRY	DRY	DRY
ADDITIONAL														
Calcium Dissolved	5	ug/l	111300	128700	151200	140000	140000	NA	DRY	DRY	DRY	DRY	DRY	DRY
Magnesium Dissolved	5	ug/l	17310	19910	22720	22000	22000	NA	DRY	DRY	DRY	DRY	DRY	DRY
Manganese Dissolved	1	ug/l	348	<1	1	<1	<1	NA	DRY	DRY	DRY	DRY	DRY	DRY
Iron Total (HNO3 Digest)	5	ug/l	346500	34450	303800	62000	82000	NA	DRY	DRY	DRY	DRY	DRY	DRY
Total Alkalinity as CaCO3	2	mg/l	275	390	335	210	270	NA	DRY	DRY	DRY	DRY	DRY	DRY
Potassium Dissolved	0.2	mg/l	0.6	0.8	0.6	0.6	0.5	NA	DRY	DRY	DRY	DRY	DRY	DRY
Sodium Dissolved	0.2	mg/l	12.5	12.8	13.1	20.0	14.0	NA	DRY	DRY	DRY	DRY	DRY	DRY
Nitrate as NO3	0.3	mg/l	152.8	161.7	178.9	170.0	170.0	NA	DRY	DRY	DRY	DRY	DRY	DRY
Sulphate (soluble)	3	mg/l	24	30	32	33	37	NA	DRY	DRY	DRY	DRY	DRY	DRY
Chloride	1	mg/l	42	40	43	45	52	NA	DRY	DRY	DRY	DRY	DRY	DRY
pH Value	1	pH units	7.89	7.87	7.92	7.74	8.10	NA	DRY	DRY	DRY	DRY	DRY	DRY

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW3 Baseline 16/08/05	TMW3 Round 1 08/07/06	TMW3 Round 2 09/11/06	TMW3 Round 3 06/08/07	TMW3 Round 4 18/10/07	TMW3 Round 5 21/06/08	TMW4 Baseline 21/08/05	TMW4 Round 1 08/07/06	TMW4 Round 2 06/11/06	TMW4 Round 3 01/08/07	TMW4 Round 4 17/10/07	TMW4 Round 5 21/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	DRY	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	DRY	DRY	DRY	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	DRY	DRY	DRY	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	DRY	DRY	DRY	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	0.091	<0.01	DRY	DRY	DRY	<0.1	0.099	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	DRY	DRY	DRY	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	0.091	<0.01	DRY	DRY	DRY	<0.1	0.099	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	DRY	DRY	DRY	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	DRY	DRY	DRY	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	5	DRY	DRY	DRY	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	3	DRY	DRY	DRY	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	6	DRY	DRY	DRY	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	3	DRY	DRY	DRY	<1	<1	<1	<1	<1	<1	<1
ADDITIONAL														
Calcium Dissolved	5	ug/l	90630	75560	DRY	DRY	DRY	NA	89500	91970	87320	90000	91000	NA
Magnesium Dissolved	5	ug/l	35940	19480	DRY	DRY	DRY	NA	23080	24300	22580	24000	25000	NA
Manganese Dissolved	1	ug/l	799	1	DRY	DRY	DRY	NA	12	<1	5	2	9	NA
Iron Total (HNO3 Digest)	5	ug/l	458	24770	DRY	DRY	DRY	NA	272000	24590	960600	150000	58000	NA
Total Alkalinity as CaCO3	2	mg/l	375	500	DRY	DRY	DRY	NA	275	355	425	260	200	NA
Potassium Dissolved	0.2	mg/l	87.0	2.0	DRY	DRY	DRY	NA	0.8	0.6	0.9	0.6	0.6	NA
Sodium Dissolved	0.2	mg/l	46.5	17.3	DRY	DRY	DRY	NA	10.2	9.2	10.2	16.0	11.0	NA
Nitrate as NO3	0.3	mg/l	21.9	1.9	DRY	DRY	DRY	NA	10.9	10.1	8.5	8.5	7.6	NA
Sulphate (soluble)	3	mg/l	91	8	DRY	DRY	DRY	NA	36	12	-	11	13	NA
Chloride	1	mg/l	88	5	DRY	DRY	DRY	NA	6	5	4	4	4	NA
pH Value	1	pH units	8.80	8.00	DRY	DRY	DRY	NA	8.33	7.86	8.09	7.79	7.85	NA

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW5 Baseline 19/08/05	TMW5 Round 1 08/07/06	TMW5 Round 2 05/11/06	TMW5 Round 3 01/08/07	TMW5 Round 4 17/10/07	TMW5 Round 5 21/06/08	TMW6 Baseline 21/08/05	TMW6 Round 1 05/07/06	TMW6 Round 2 05/11/06	TMW6 Round 3 01/08/07	TMW6 Round 4 17/10/07	TMW6 Round 5 21/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	22	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	29	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	13	<10	<10	<10	<10	<10	51	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	13	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	26	<10	<10	<10	<10	<10	51	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	405	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	0.219	<0.01	<0.01	<0.026	<0.026	<0.1	0.109	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	0.022	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	0.021	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	0.028	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	0.011	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	0.022	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	0.191	<0.01	<0.01	0.017	0.12	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	0.492	<0.01	<0.01	0.017	0.14	<0.1	0.109	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
ADDITIONAL														
Calcium Dissolved	5	ug/l	42530	36710	49200	50000	53000	NA	64300	136200	75630	66000	70000	NA
Magnesium Dissolved	5	ug/l	11710	9574	12560	13000	13000	NA	11110	15340	10150	11000	10000	NA
Manganese Dissolved	1	ug/l	259	94	15	47	99	NA	129	14	1	8	1	NA
Iron Total (HNO3 Digest)	5	ug/l	249400	29000	45580	71000	18000	NA	6445	8314	37600	17000	45000	NA
Total Alkalinity as CaCO3	2	mg/l	195	245	225	250	200	NA	235	210	280	220	240	NA
Potassium Dissolved	0.2	mg/l	1.7	2.4	0.9	1.5	1.4	NA	1.4	0.3	0.6	1.1	0.9	NA
Sodium Dissolved	0.2	mg/l	24.8	17.3	13.5	20.0	14.0	NA	9.2	5.3	5.6	11.0	6.9	NA
Nitrate as NO3	0.3	mg/l	6.4	4.9	9.8	11.0	8.8	NA	16.2	15.0	15.3	13.0	13.0	NA
Sulphate (soluble)	3	mg/l	30	7	7	7	7	NA	10	10	10	7	10	NA
Chloride	1	mg/l	2	1	1	2	1	NA	1	<1.00	<1	<1	1	NA
pH Value	1	pH units	8.44	8.30	8.50	8.01	8.08	NA	8.26	8.31	8.21	8.41	7.83	NA

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW7 Baseline 24/08/05	TMW7 Round 1 05/07/06	TMW7 Round 2 05/11/06	TMW7 Round 3 02/08/07	TMW7 Round 4 17/10/07	TMW7 Round 5 21/06/08	TMW8 Baseline 24/08/05	TMW8 Round 1 24/07/06	TMW8 Round 2 10/11/06	TMW8 Round 3 03/08/07	TMW8 Round 4 16/10/07	TMW8 Round 5 05/06/08	TMW8 Round 6 18/09/08
PETROLEUM HYDROCARBONS															
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	13	<10	28	DRY	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	13	<10	28	DRY	58	58
Ethyl benzene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aliphatics >C12-C16	10	ug/l	<10	<10	26	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aliphatics >C21-C35	10	ug/l	<10	<10	27	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Total Aliphatics C5-C35	10	ug/l	<10	<10	53	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	13	<10	28	DRY	58	NA
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Aromatics >EC21-EC35	10	ug/l	<10	20	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	<10	NA
Total Aromatics C6-C35	10	ug/l	<10	20	<10	<10	DRY	DRY	<10	13	<10	<10	DRY	58	NA
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	20	53	<10	DRY	DRY	<10	13	<10	28	DRY	58	NA
EPH (DRO) (C10-C40)	10	ug/l	1652	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	NA	<10
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	13	<10	28	DRY	NA	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	DRY	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS															
Naphthalene	0.026	ug/l	0.052	<0.01	<0.01	<0.026	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.026	DRY	<0.1	<0.01
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.011	DRY	<0.011	NA
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.015	DRY	<0.015	NA
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.014	DRY	<0.014	NA
Phenanthrene	0.022	ug/l	0.027	<0.01	<0.01	<0.022	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.022	DRY	<0.022	NA
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.015	DRY	<0.015	NA
Fluoranthene	0.017	ug/l	0.043	<0.01	<0.01	<0.017	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.017	DRY	<0.017	NA
Pyrene	0.015	ug/l	0.054	<0.01	<0.01	<0.015	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.015	DRY	<0.015	NA
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.017	DRY	<0.017	NA
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.013	DRY	<0.013	NA
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.023	DRY	<0.023	NA
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.027	DRY	<0.027	NA
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.009	DRY	<0.009	NA
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.014	DRY	<0.014	NA
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.016	DRY	<0.016	NA
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.016	DRY	<0.016	NA
PAH 16 Total	0.027	ug/l	0.176	<0.01	<0.01	<0.027	DRY	DRY	<0.01	<0.01	Insufficient sample	<0.027	DRY	<0.1	NA
BTEX															
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	DRY	DRY	NA	<1	<1	<1	DRY	<2	<2
Benzene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	DRY	>1	<1
Toluene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	12	<1	24	DRY	65	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	DRY	<2	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	DRY	<2	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	DRY	<1	<1
ADDITIONAL															
Calcium Dissolved	5	ug/l	76090	176600	88870	85000	DRY	DRY	17060	32430	Insufficient sample	38000	DRY	NA	NA
Magnesium Dissolved	5	ug/l	14210	34550	16500	16000	DRY	DRY	2045	4665	Insufficient sample	5800	DRY	NA	NA
Manganese Dissolved	1	ug/l	103	131	1	49	DRY	DRY	137	3165	Insufficient sample	4200	DRY	NA	NA
Iron Total (HNO3 Digest)	5	ug/l	5070	1694	4724	36000	DRY	DRY	1121	208100 0	Insufficient sample	260000	DRY	NA	NA
Total Alkalinity as CaCO3	2	mg/l	250	205	255	310	DRY	DRY	125	290	Insufficient sample	140	DRY	NA	NA
Potassium Dissolved	0.2	mg/l	2.6	1.4	1.7	2.3	DRY	DRY	5.6	4.7	Insufficient sample	2.4	DRY	NA	NA
Sodium Dissolved	0.2	mg/l	12.5	7.2	7.7	7.7	DRY	DRY	23.3	34.5	Insufficient sample	4.4	DRY	NA	NA
Nitrate as NO3	0.3	mg/l	51.7	55.6	44.6	40.0	DRY	DRY	6.3	<0.3	Insufficient sample	<0.3	DRY	NA	NA
Sulphate (soluble)	3	mg/l	17	32	19	20	DRY	DRY	8	<3	Insufficient sample	<3	DRY	NA	NA
Chloride	1	mg/l	7	14	12	12	DRY	DRY	3	1	Insufficient sample	3	DRY	NA	NA
pH Value	1	pH units	8.03	8.24	8.37	8.17	DRY	DRY	8.22	7.44	Insufficient sample	7.45	DRY	NA	NA

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW9a Baseline 07/09/05	TMW9a Round 1 05/07/06	TMW9a Round 2 09/11/06	TMW9a Round 3 03/08/07	TMW9a Round 4 16/10/07	TMW9a Round 5	TMW10 Baseline 24/08/05	TMW10 Round 1 05/07/06	TMW10 Round 2 05/11/06	TMW10 Round 3 03/08/07	TMW10 Round 4 16/10/07	TMW10 Round 5 05/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
MTBE	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Benzene	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Toluene	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Ethyl benzene	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
m & p Xylene	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
o Xylene	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aliphatics C5-C6	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aliphatics >C6-C8	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aliphatics >C8-C10	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aliphatics >C10-C12	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aliphatics >C12-C16	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	23	<10	<10	DRY
Aliphatics >C16-C21	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	14	<10	<10	DRY
Aliphatics >C21-C35	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	11	<10	<10	DRY
Total Aliphatics C5-C35	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	48	<10	<10	DRY
Aromatics C6-C7	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aromatics >C7-C8	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aromatics >EC8-EC10	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aromatics >EC10-EC12	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aromatics >EC12-EC16	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aromatics >EC16-EC21	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Aromatics >EC21-EC35	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
Total Aromatics C6-C35	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	48	<10	<10	DRY
EPH (DRO) (C10-C40)	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
GRO (C4-C10)	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
GRO (C10-C12)	10	ug/l	DRY	<10	No Access	Decommissione d	Decommissione d	Decommissioned	<10	<10	<10	<10	<10	DRY
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.026	<0.1	DRY
Acenaphthylene	0.011	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.011	<0.011	DRY
Acenaphthene	0.015	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.015	<0.015	DRY
Fluorene	0.014	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.014	<0.014	DRY
Phenanthrene	0.022	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.022	<0.022	DRY
Anthracene	0.015	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.015	<0.015	DRY
Fluoranthene	0.017	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.017	<0.017	DRY
Pyrene	0.015	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.015	<0.015	DRY
Benz(a)anthracene	0.017	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.017	<0.017	DRY
Chrysene	0.013	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.013	<0.013	DRY
Benzo(b)fluoranthene	0.023	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.023	<0.023	DRY
Benzo(k)fluoranthene	0.027	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.027	<0.027	DRY
Benzo(a)pyrene	0.009	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.009	<0.009	DRY
Indeno(123cd)pyrene	0.014	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.014	<0.014	DRY
Dibenzo(ah)anthracene	0.016	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.016	<0.016	DRY
Benzo(ghi)perylene	0.016	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.016	<0.016	DRY
PAH 16 Total	0.027	ug/l	DRY	<0.01	No Access	Decommissione d	Decommissione d	Decommissioned	<0.01	<0.01	<0.01	<0.027	<0.1	DRY
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	DRY	<1	No Access	Decommissione d	Decommissione d	Decommissioned	NA	<1	<1	<1	<2	DRY
Benzene	1	ug/l	DRY	<1	No Access	Decommissione d	Decommissione d	Decommissioned	<1	<1	<1	<1	<1	DRY
Toluene	1	ug/l	DRY	<1	No Access	Decommissione d	Decommissione d	Decommissioned	<1	<1	<1	<1	<1	DRY
Ethylbenzene	1	ug/l	DRY	<1	No Access	Decommissione d	Decommissione d	Decommissioned	<1	<1	<1	<1	<2	DRY
p/m-Xylene	1	ug/l	DRY	<1	No Access	Decommissione d	Decommissione d	Decommissioned	<1	<1	<1	<1	<2	DRY
o-Xylene	1	ug/l	DRY	<1	No Access	Decommissione d	Decommissione d	Decommissioned	<1	<1	<1	<1	<1	DRY
ADDITIONAL														
Calcium Dissolved	5	ug/l	DRY	144200	No Access	Decommissione d	Decommissione d	Decommissioned	68840	163800	68720	87000	80000	DRY
Magnesium Dissolved	5	ug/l	DRY	18460	No Access	Decommissione d	Decommissione d	Decommissioned	14840	39320	13670	19000	18000	DRY
Manganese Dissolved	1	ug/l	DRY	22	No Access	Decommissione d	Decommissione d	Decommissioned	41	4	<1	5	<1	DRY
Iron Total (HNO3 Digest)	5	ug/l	DRY	357600	No Access	Decommissione d	Decommissione d	Decommissioned	1065	16410	37330	100000	4200	DRY
Total Alkalinity as CaCO3	2	mg/l	DRY	260	No Access	Decommissione d	Decommissione d	Decommissioned	280	290	240	270	290	DRY
Potassium Dissolved	0.2	mg/l	DRY	4.2	No Access	Decommissione d	Decommissione d	Decommissioned	0.2	<0.2	<0.2	0.3	0.2	DRY
Sodium Dissolved	0.2	mg/l	DRY	13.4	No Access	Decommissione d	Decommissione d	Decommissioned	12.6	15.0	10.8	15.0	14.0	DRY
Nitrate as NO3	0.3	mg/l	DRY	32.0	No Access	Decommissione d	Decommissione d	Decommissioned	1.0	0.4	0.9	0.9	<0.3	DRY
Sulphate (soluble)	3	mg/l	DRY	<3	No Access	Decommissione d	Decommissione d	Decommissioned	28	24	31	27	16	DRY
Chloride	1	mg/l	DRY	4	No Access	Decommissione d	Decommissione d	Decommissioned	6	4	8	10	7	DRY
pH Value	1	pH units	DRY	8.50	No Access	Decommissione d	Decommissione d	Decommissioned	8.21	8.34	8.52	8.01	7.56	DRY

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW11 Baseline 18/08/05	TMW11 Round 1 13/07/06	TMW11 Round 2 10/11/06	TMW11 Round 3 03/08/07	TMW11 Round 4 16/10/07	TMW11 Round 5 05/06/08	TMW12 Baseline 31/08/05	TMW12 Round 1 13/07/06	TMW12 Round 2 11/11/06	TMW12 Round 3 3/08/07	TMW12 Round 4 16/10/07	TMW12 Round 5 05/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	DRY	No Access	DRY	DRY	DRY
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	DRY	No Access	DRY	DRY	DRY
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	DRY	No Access	DRY	DRY	DRY
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	DRY	No Access	DRY	DRY	DRY
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	0.384	<0.01	<0.01	<0.026	<0.026	<0.1	DRY	DRY	No Access	DRY	DRY	DRY
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	DRY	DRY	No Access	DRY	DRY	DRY
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	DRY	No Access	DRY	DRY	DRY
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	DRY	No Access	DRY	DRY	DRY
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	DRY	DRY	No Access	DRY	DRY	DRY
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	DRY	No Access	DRY	DRY	DRY
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	DRY	No Access	DRY	DRY	DRY
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	DRY	No Access	DRY	DRY	DRY
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	DRY	No Access	DRY	DRY	DRY
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	DRY	DRY	No Access	DRY	DRY	DRY
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	DRY	DRY	No Access	DRY	DRY	DRY
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	DRY	DRY	No Access	DRY	DRY	DRY
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	DRY	DRY	No Access	DRY	DRY	DRY
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	DRY	No Access	DRY	DRY	DRY
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	DRY	No Access	DRY	DRY	DRY
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	DRY	No Access	DRY	DRY	DRY
PAH 16 Total	0.027	ug/l	0.384	<0.01	<0.01	<0.027	<0.027	<0.1	DRY	DRY	No Access	DRY	DRY	DRY
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	DRY	No Access	DRY	DRY	DRY
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	No Access	DRY	DRY	DRY
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	No Access	DRY	DRY	DRY
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	DRY	No Access	DRY	DRY	DRY
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	DRY	No Access	DRY	DRY	DRY
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	DRY	No Access	DRY	DRY	DRY
ADDITIONAL														
Calcium Dissolved	5	ug/l	27810	24060	24490	21000	26000	NA	DRY	DRY	No Access	DRY	DRY	DRY
Magnesium Dissolved	5	ug/l	4439	3971	3859	3700	3600	NA	DRY	DRY	No Access	DRY	DRY	DRY
Manganese Dissolved	1	ug/l	30	10	4	1	160	NA	DRY	DRY	No Access	DRY	DRY	DRY
Iron Total (HNO3 Digest)	5	ug/l	206500	13000	142600	32000	27000	NA	DRY	DRY	No Access	DRY	DRY	DRY
Total Alkalinity as CaCO3	2	mg/l	85	70	160	70	75	NA	DRY	DRY	No Access	DRY	DRY	DRY
Potassium Dissolved	0.2	mg/l	0.8	0.6	0.8	0.9	0.8	NA	DRY	DRY	No Access	DRY	DRY	DRY
Sodium Dissolved	0.2	mg/l	7.5	6.2	6.8	6.8	8.0	NA	DRY	DRY	No Access	DRY	DRY	DRY
Nitrate as NO3	0.3	mg/l	26.1	20.7	15.0	15.0	11.0	NA	DRY	DRY	No Access	DRY	DRY	DRY
Sulphate (soluble)	3	mg/l	11	15	12	10	9	NA	DRY	DRY	No Access	DRY	DRY	DRY
Chloride	1	mg/l	4	4	3	3	3	NA	DRY	DRY	No Access	DRY	DRY	DRY
pH Value	1	pH units	7.98	8.04	7.83	7.93	7.83	NA	DRY	DRY	No Access	DRY	DRY	DRY

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW13 Baseline 25/08/05	TMW13 Round 1 22/07/06	TMW13 Round 2 11/11/06	TMW13 Round 3 04/08/07	TMW13 Round 4 04/10/07	TMW13 Round 5 05/06/08	TMW14 Baseline 27/08/05	TMW14 Round 1 09/07/06	TMW14 Round 2 11/11/06	TMW14 Round 3 04/08/07	TMW14 Round 4 04/10/07	TMW14 Round 5 10/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
MTBE	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Benzene	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Toluene	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Ethyl benzene	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
m & p Xylene	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
o Xylene	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aliphatics C5-C6	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	No Access	<10	18	DRY	<10	<10	No Access	<10	DRY	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	No Access	<10	110	DRY	<10	<10	No Access	<10	DRY	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	No Access	<10	600	DRY	<10	<10	No Access	<10	DRY	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	No Access	<10	730	DRY	<10	<10	No Access	<10	DRY	<10
Aromatics C6-C7	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aromatics >C7-C8	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	No Access	<10	<10	DRY	12	<10	No Access	<10	DRY	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	No Access	<10	48	DRY	<10	<10	No Access	<10	DRY	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	No Access	<10	48	DRY	12	<10	No Access	<10	DRY	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	No Access	<10	780	DRY	12	<10	No Access	<10	DRY	<10
EPH (DRO) (C10-C40)	10	ug/l	2109	<10	No Access	<10	1300	DRY	<10	<10	No Access	51	DRY	NA
GRO (C4-C10)	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	NA
GRO (C10-C12)	10	ug/l	<10	<10	No Access	<10	<10	DRY	<10	<10	No Access	<10	DRY	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	0.185	0.196	No Access	<0.026	<0.026	DRY	<0.01	<0.01	No Access	<0.026	DRY	<0.1
Acenaphthylene	0.011	ug/l	0.036	<0.01	No Access	<0.011	<0.011	DRY	<0.01	<0.01	No Access	<0.011	DRY	<0.011
Acenaphthene	0.015	ug/l	0.053	0.06	No Access	<0.015	<0.015	DRY	<0.01	<0.01	No Access	<0.015	DRY	<0.015
Fluorene	0.014	ug/l	0.134	0.058	No Access	<0.014	<0.014	DRY	<0.01	<0.01	No Access	<0.014	DRY	<0.014
Phenanthrene	0.022	ug/l	0.124	0.104	No Access	<0.022	<0.022	DRY	<0.01	<0.01	No Access	<0.022	DRY	<0.022
Anthracene	0.015	ug/l	0.011	0.019	No Access	<0.015	<0.015	DRY	<0.01	<0.01	No Access	<0.015	DRY	<0.015
Fluoranthene	0.017	ug/l	0.022	<0.01	No Access	<0.017	<0.017	DRY	<0.01	<0.01	No Access	<0.017	DRY	<0.017
Pyrene	0.015	ug/l	0.062	<0.01	No Access	<0.015	<0.015	DRY	<0.01	<0.01	No Access	<0.015	DRY	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	No Access	<0.017	<0.017	DRY	<0.01	<0.01	No Access	<0.017	DRY	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	No Access	<0.013	<0.013	DRY	<0.01	<0.01	No Access	<0.013	DRY	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	No Access	<0.023	<0.023	DRY	<0.01	<0.01	No Access	<0.023	DRY	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	No Access	<0.027	<0.027	DRY	<0.01	<0.01	No Access	<0.027	DRY	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	No Access	<0.009	<0.009	DRY	<0.01	<0.01	No Access	<0.009	DRY	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	No Access	<0.014	<0.014	DRY	<0.01	<0.01	No Access	<0.014	DRY	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	No Access	<0.016	<0.016	DRY	<0.01	<0.01	No Access	<0.016	DRY	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	No Access	<0.016	<0.016	DRY	<0.01	<0.01	No Access	<0.016	DRY	<0.016
PAH 16 Total	0.027	ug/l	0.627	0.437	No Access	<0.027	<0.027	DRY	<0.01	<0.01	No Access	<0.027	DRY	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	No Access	<1	<1	DRY	NA	<1	No Access	<1	DRY	<2
Benzene	1	ug/l	2	<1	No Access	<1	<1	DRY	<1	<1	No Access	<1	DRY	<1
Toluene	1	ug/l	2	<1	No Access	<1	<1	DRY	<1	<1	No Access	<1	DRY	<1
Ethylbenzene	1	ug/l	<1	<1	No Access	<1	<1	DRY	<1	<1	No Access	<1	DRY	<2
p/m-Xylene	1	ug/l	<1	<1	No Access	<1	<1	DRY	<1	<1	No Access	<1	DRY	<2
o-Xylene	1	ug/l	<1	<1	No Access	<1	<1	DRY	<1	<1	No Access	<1	DRY	<1
ADDITIONAL														
Calcium Dissolved	5	ug/l	17960	59000	No Access	92000	84000	DRY	16780	11000	No Access	30000	DRY	NA
Magnesium Dissolved	5	ug/l	3785	10640	No Access	16000	16000	DRY	5275	3169	No Access	4100	DRY	NA
Manganese Dissolved	1	ug/l	61	481	No Access	750	1400	DRY	29	7	No Access	220	DRY	NA
Iron Total (HNO3 Digest)	5	ug/l	228100	23880	No Access	13000	30000	DRY	15480	22730	No Access	100000	DRY	NA
Total Alkalinity as CaCO3	2	mg/l	10750	245	No Access	440	300	DRY	85	65	No Access	840	DRY	NA
Potassium Dissolved	0.2	mg/l	6.8	1.7	No Access	3	3.3	DRY	2.6	2.1	No Access	3.6	DRY	NA
Sodium Dissolved	0.2	mg/l	85.5	12.3	No Access	22	27.0	DRY	8.0	5.0	No Access	6.2	DRY	NA
Nitrate as NO3	0.3	mg/l	<0.3	2.2	No Access	<0.3	0.6	DRY	6.4	6.2	No Access	<0.3	DRY	NA
Sulphate (soluble)	3	mg/l	32	<3	No Access	10	<3	DRY	3	6	No Access	4	DRY	NA
Chloride	1	mg/l	13	<1	No Access	1	1	DRY	1	<1.00	No Access	3	DRY	NA
pH Value	1	pH units	8.34	8.15	No Access	8.13	8.17	DRY	7.43	7.63	No Access	7.82	DRY	NA

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW15 Baseline 21/08/05	TMW15 Round 1 05/07/06	TMW15 Round 2 05/11/06	TMW15 Round 3 01/08/07	TMW15 Round 4 17/10/07	TMW15 Round 5 10/06/08	TMW16 Baseline 22/08/05	TMW16 Round 1 05/07/06	TMW16 Round 2 05/11/06	TMW16 Round 3 01/08/07	TMW16 Round 4 17/10/07	TMW16 Round 5 05/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	28	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	54	<10	DRY	DRY	<10	<10	15	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	82	<10	DRY	DRY	<10	<10	15	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	11	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	29	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	29	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	29	82	<10	DRY	DRY	<10	<10	26	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	540	DRY	DRY	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	0.473	<0.01	<0.01	0.027	DRY	DRY	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	DRY	DRY	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	0.022	DRY	DRY	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	0.023	DRY	DRY	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	0.16	DRY	DRY	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	DRY	DRY	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	0.074	DRY	DRY	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	0.065	DRY	DRY	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	DRY	DRY	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	DRY	DRY	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	DRY	DRY	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	DRY	DRY	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	DRY	DRY	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	DRY	DRY	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	DRY	DRY	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	DRY	DRY	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	0.473	<0.01	<0.01	0.037	DRY	DRY	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	DRY	DRY	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1
ADDITIONAL														
Calcium Dissolved	5	ug/l	46800	87710	48440	55000	DRY	DRY	35800	41780	36800	43000	43000	NA
Magnesium Dissolved	5	ug/l	11160	24240	14410	15000	DRY	DRY	9071	7161	7308	9100	9100	NA
Manganese Dissolved	1	ug/l	115	3	<1	330	DRY	DRY	114	<1	<1	790	3	NA
Iron Total (HNO3 Digest)	5	ug/l	71920	4165	6449	17000	DRY	DRY	82500	260500	4831	63000	25000	NA
Total Alkalinity as CaCO3	2	mg/l	190	185	195	250	DRY	DRY	160	225	145	270	170	NA
Potassium Dissolved	0.2	mg/l	0.9	0.8	0.9	1.7	DRY	DRY	1.1	0.5	0.3	1.2	0.8	NA
Sodium Dissolved	0.2	mg/l	6.3	6.2	6.2	18.0	DRY	DRY	10.7	7.5	7.1	17.0	8.3	NA
Nitrate as NO3	0.3	mg/l	6.1	8.9	13.1	6.3	DRY	DRY	4.2	5.2	5.8	4.6	4.2	NA
Sulphate (soluble)	3	mg/l	6	13	13	10	DRY	DRY	6	7	5	5	4	NA
Chloride	1	mg/l	2	2	2	2	DRY	DRY	1	<1.00	<1	1	1	NA
pH Value	1	pH units	8.44	8.60	8.64	8.52	DRY	DRY	8.52	8.53	8.50	8.34	8.02	NA

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW17 Baseline 19/08/05	TMW17 Round 1 05/07/06	TMW17 Round 2 06/11/06	TMW17 Round 3 02/08/07	TMW17 Round 4 18/10/07	TMW17 Round 5 20/06/08	TMW18** Baseline 19/08/05	TMW18 Round 1 09/07/06	TMW18 Round 2 06/11/06	TMW18 Round 3 01/08/07	TMW18 Round 4 18/10/07	TMW18 Round 5 20/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
MTBE	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Benzene	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Toluene	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Ethyl benzene	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
m & p Xylene	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
o Xylene	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	No Access	<10	<10	<10	<10	No Access	<10	No Access	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	No Access	<10	<10	<10	NA	No Access	<10	No Access	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	No Access	<10	<10	<10	NA	No Access	<10	No Access	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	No Access	<10	<10	<10	NA	No Access	<10	No Access	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	0.126	No Access	<0.01	<0.026	<0.026	<0.1	No Access	<0.01	No Access	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	No Access	<0.01	<0.011	<0.011	<0.011	No Access	<0.01	No Access	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	No Access	<0.01	<0.015	<0.015	<0.015	No Access	<0.01	No Access	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	No Access	<0.01	<0.014	<0.014	<0.014	No Access	<0.01	No Access	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	No Access	<0.01	<0.022	<0.022	<0.022	No Access	<0.01	No Access	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	No Access	<0.01	<0.015	<0.015	<0.015	No Access	<0.01	No Access	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	No Access	<0.01	<0.017	<0.017	<0.017	No Access	<0.01	No Access	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	No Access	<0.01	<0.015	<0.015	0.018	No Access	<0.01	No Access	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	No Access	<0.01	<0.017	<0.017	<0.017	No Access	<0.01	No Access	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	No Access	<0.01	<0.013	<0.013	<0.013	No Access	<0.01	No Access	0.017	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	No Access	<0.01	<0.023	<0.023	<0.023	No Access	<0.01	No Access	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	No Access	<0.01	<0.027	<0.027	<0.027	No Access	<0.01	No Access	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	No Access	<0.01	<0.009	<0.009	<0.009	No Access	<0.01	No Access	0.019	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	No Access	<0.01	<0.014	<0.014	<0.014	No Access	<0.01	No Access	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	No Access	<0.01	<0.016	<0.016	<0.016	No Access	<0.01	No Access	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	No Access	<0.01	<0.016	<0.016	<0.016	No Access	<0.01	No Access	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	0.126	No Access	<0.01	<0.027	<0.027	<0.1	No Access	<0.01	No Access	0.036	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	No Access	<1	<1	<1	<2	No Access	<1	No Access	<1	<1	<2
Benzene	1	ug/l	<1	No Access	<1	<1	<1	<1	No Access	<1	No Access	<1	<1	<1
Toluene	1	ug/l	<1	No Access	<1	<1	<1	<1	No Access	<1	No Access	<1	<1	<1
Ethylbenzene	1	ug/l	<1	No Access	<1	<1	<1	<2	No Access	<1	No Access	<1	<1	<2
p/m-Xylene	1	ug/l	<1	No Access	<1	<1	<1	<2	No Access	<1	No Access	<1	<1	<2
o-Xylene	1	ug/l	<1	No Access	<1	<1	<1	<1	No Access	<1	No Access	<1	<1	<1
ADDITIONAL														
Calcium Dissolved	5	ug/l	81260	No Access	76560	89000	87000	NA	No Access	59170	No Access	61000	63000	NA
Magnesium Dissolved	5	ug/l	10560	No Access	10580	12000	11000	NA	No Access	14250	No Access	15000	15000	NA
Manganese Dissolved	1	ug/l	284	No Access	403	370	38	NA	No Access	<1	No Access	2	<1	NA
Iron Total (HNO3 Digest)	5	ug/l	51970	No Access	455300	460000	330000	NA	No Access	7638	No Access	2600	25000	NA
Total Alkalinity as CaCO3	2	mg/l	1775	No Access	265	220	450	NA	No Access	365	No Access	140	250	NA
Potassium Dissolved	0.2	mg/l	1.1	No Access	1.1	1.2	1.4	NA	No Access	0.2	No Access	0.5	0.3	NA
Sodium Dissolved	0.2	mg/l	17.3	No Access	15.8	16	20.0	NA	No Access	8.4	No Access	15	11.0	NA
Nitrate as NO3	0.3	mg/l	0.3	No Access	0.4	1.1	20.0	NA	No Access	23.3	No Access	20	<0.3	NA
Sulphate (soluble)	3	mg/l	10	No Access	4	5	7	NA	No Access	6	No Access	<3	<3	NA
Chloride	1	mg/l	<1	No Access	<1	<1	<1	NA	No Access	3	No Access	3	3	NA
pH Value	1	pH units	8.37	No Access	8.06	7.87	7.96	NA	No Access	8.33	No Access	8.53	8.17	NA

Location: **Tsalka.** Sample Type: **Groundwater.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	TMW19 Baseline 31/08/05	TMW19 Round 1 09/07/06	TMW19 Round 2 11/11/06	TMW19 Round 3 03/08/07	TMW19 Round 4 18/10/07	TMW19 Round 5 20/06/08	TMW20 Baseline 26/08/05	TMW20 Round 1 09/07/06	TMW20 Round 2 09/11/06	TMW20 Round 3 03/08/07	TMW20 Round 4 16/10/07	TMW20 Round 5 20/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
MTBE	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Benzene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Toluene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Ethyl benzene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
m & p Xylene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
o Xylene	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aliphatics C5-C6	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aliphatics >C6-C8	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aliphatics >C8-C10	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aliphatics >C10-C12	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aliphatics >C12-C16	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aliphatics >C16-C21	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aliphatics >C21-C35	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Total Aliphatics C5-C35	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aromatics C6-C7	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aromatics >C7-C8	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aromatics >EC8-EC10	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aromatics >EC10-EC12	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aromatics >EC12-EC16	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aromatics >EC16-EC21	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Aromatics >EC21-EC35	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
Total Aromatics C6-C35	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
EPH (DRO) (C10-C40)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
GRO (C4-C10)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
GRO (C10-C12)	10	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<10	No Access	No Access	DRY	DRY	DRY
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	0.088	No Access	No Access	DRY	DRY	DRY
Acenaphthylene	0.011	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
Acenaphthene	0.015	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	0.029	No Access	No Access	DRY	DRY	DRY
Fluorene	0.014	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	0.029	No Access	No Access	DRY	DRY	DRY
Phenanthrene	0.022	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	0.09	No Access	No Access	DRY	DRY	DRY
Anthracene	0.015	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	0.015	No Access	No Access	DRY	DRY	DRY
Fluoranthene	0.017	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	0.014	No Access	No Access	DRY	DRY	DRY
Pyrene	0.015	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	0.396	No Access	No Access	DRY	DRY	DRY
Benz(a)anthracene	0.017	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
Chrysene	0.013	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
Benzo(b)fluoranthene	0.023	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
Benzo(k)fluoranthene	0.027	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
Benzo(a)pyrene	0.009	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
Indeno(123cd)pyrene	0.014	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
Dibenzo(ah)anthracene	0.016	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
Benzo(ghi)perylene	0.016	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<0.01	No Access	No Access	DRY	DRY	DRY
PAH 16 Total	0.027	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	0.661	No Access	No Access	DRY	DRY	DRY
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	NA	No Access	No Access	DRY	DRY	DRY
Benzene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	No Access	No Access	DRY	DRY	DRY
Toluene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	No Access	No Access	DRY	DRY	DRY
Ethylbenzene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	No Access	No Access	DRY	DRY	DRY
p/m-Xylene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	No Access	No Access	DRY	DRY	DRY
o-Xylene	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	<1	No Access	No Access	DRY	DRY	DRY
ADDITIONAL														
Calcium Dissolved	5	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	42480	No Access	No Access	DRY	DRY	DRY
Magnesium Dissolved	5	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	10600	No Access	No Access	DRY	DRY	DRY
Manganese Dissolved	1	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	101	No Access	No Access	DRY	DRY	DRY
Iron Total (HNO3 Digest)	5	ug/l	DRY	DRY	DRY	DRY	DRY	DRY	494	No Access	No Access	DRY	DRY	DRY
Total Alkalinity as CaCO3	2	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	330	No Access	No Access	DRY	DRY	DRY
Potassium Dissolved	0.2	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	2.0	No Access	No Access	DRY	DRY	DRY
Sodium Dissolved	0.2	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	11.0	No Access	No Access	DRY	DRY	DRY
Nitrate as NO3	0.3	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	1.5	No Access	No Access	DRY	DRY	DRY
Sulphate (soluble)	3	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	12	No Access	No Access	DRY	DRY	DRY
Chloride	1	mg/l	DRY	DRY	DRY	DRY	DRY	DRY	2	No Access	No Access	DRY	DRY	DRY
pH Value	1	pH units	DRY	DRY	DRY	DRY	DRY	DRY	8.31	No Access	No Access	DRY	DRY	DRY

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW1	TSW1	TSW1	TSW1	TSW1	TSW1	TSW2	TSW2	TSW2	TSW2	TSW2	TSW2
		Date Sampled / Units	Baseline 16/08/2005	Round 1 08/07/06	Round 2 09/11/06	Round 3 31/07/07	Round 4 18/10/07	Round 5 21/06/08	Baseline 19/08/05	Round 1 12/07/06	Round 2 06/11/06	Round 3 01/08/07	Round 4 17/10/07	Round 5 21/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	DRY	<10	16	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	DRY	<10	36	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	DRY	<10	52	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	DRY	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	<10	52	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	DRY	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	DRY	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	DRY	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	<0.01	<0.01	<0.026	<0.026	<0.1	0.101	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	DRY	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	DRY	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	DRY	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	DRY	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	DRY	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	DRY	<0.01	<0.01	0.037	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	DRY	<0.01	<0.01	0.036	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	DRY	<0.01	<0.01	0.053	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	DRY	<0.01	<0.01	0.056	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	DRY	<0.01	<0.01	0.059	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	DRY	<0.01	<0.01	0.064	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	DRY	<0.01	<0.01	0.063	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	DRY	<0.01	<0.01	0.024	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	DRY	<0.01	<0.01	0.024	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	DRY	<0.01	<0.01	0.05	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	DRY	<0.01	<0.01	0.47	<0.027	<0.1	0.101	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	DRY	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	DRY	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	DRY	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	DRY	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	DRY	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	DRY	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW3	TSW3	TSW3	TSW3	TSW3	TSW3	TSW4	TSW4	TSW4	TSW4	TSW4	TSW4
		Date Sampled / Units	Baseline 17/08/05	Round 1 10/0706	Round 2 06/11/06	Round 3 31/07/07	Round 4 18/10/07	Round 5 21/06/08	Baseline 17/08/05	Round 1 10/0706	Round 2 06/11/06	Round 3 31/07/07	Round 4 18/10/07	Round 5 21/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	No Access	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	No Access	<10	<10	<10	390	NA	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	No Access	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	No Access	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	No Access	<0.01	<0.01	0.031	<0.026	<0.1	0.074	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	No Access	<0.01	<0.01	0.019	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	No Access	<0.01	<0.01	0.024	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	No Access	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	No Access	<0.01	<0.01	<0.022	<0.022	<0.022	0.055	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	No Access	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	No Access	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	No Access	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	No Access	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	0.025
Chrysene	0.013	ug/l	No Access	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	0.029
Benzo(b)fluoranthene	0.023	ug/l	No Access	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	0.032
Benzo(k)fluoranthene	0.027	ug/l	No Access	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	No Access	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	0.02
Indeno(123cd)pyrene	0.014	ug/l	No Access	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	No Access	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	No Access	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	No Access	<0.01	<0.01	0.074	<0.027	<0.1	0.129	<0.01	<0.01	<0.027	<0.027	0.11
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	No Access	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	No Access	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	No Access	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	No Access	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW5	TSW5	TSW5	TSW5	TSW5	TSW6	TSW6	TSW6	TSW6	TSW6	TSW6
		Date Sampled / Units	Baseline 17/08/05	Round 1 14/07/06	Round 2 05/11/06	Round 3 01/08/07	Round 5 21/06/08	Baseline 24/08/05	Round 1 10/0706	Round 2 05/11/06	Round 3 03/08/07	Round 4 16/10/07	Round 5 05/06/08
PETROLEUM HYDROCARBONS													
GRO (C4-C12)	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	12	DRY	DRY	<10	<10	Insufficient Sample	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	Insufficient Sample	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	11	DRY	DRY	<10	<10	Insufficient Sample	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	23	DRY	DRY	<10	<10	Insufficient Sample	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	Insufficient Sample	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	Insufficient Sample	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	15	DRY	DRY	10	<10	Insufficient Sample	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	15	DRY	DRY	10	<10	Insufficient Sample	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	38	DRY	DRY	10	<10	Insufficient Sample	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS													
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.127	<0.01	0.031	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.03	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.032	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.110	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.299	<0.01	0.031	<0.027	<0.027	<0.1
BTEX													
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	DRY	DRY	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW7	TSW7	TSW7	TSW7	TSW7	TSW7	TSW9	TSW9	TSW9	TSW9	TSW9	TSW9
		Date Sampled / Units	Baseline 18/08/05	Round 1 10/0706	Round 2 09/11/06	Round 3 03/08/07	Round 4 16/10/07	Round 5 05/06/08	Baseline 25/08/05	Round 1 07/07/06	Round 2 11/11/06	Round 3 03/08/07	Round 4 04/10/07	Round 5 05/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	14	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	16	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	30	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	11	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	10	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	21	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	51	<10	<10	<10	DRY	<10	No Access	DRY	DRY	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	362	No Access	DRY	DRY	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	<10	No Access	DRY	DRY	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	DRY	<10	No Access	DRY	DRY	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	0.106	<0.01	<0.01	<0.026	<0.026	<0.1	DRY	<0.01	No Access	DRY	DRY	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	DRY	<0.01	No Access	DRY	DRY	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	No Access	DRY	DRY	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	<0.01	No Access	DRY	DRY	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	DRY	<0.01	No Access	DRY	DRY	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	No Access	DRY	DRY	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	<0.01	No Access	DRY	DRY	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	DRY	<0.01	No Access	DRY	DRY	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	DRY	<0.01	No Access	DRY	DRY	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	DRY	<0.01	No Access	DRY	DRY	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	DRY	<0.01	No Access	DRY	DRY	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	DRY	<0.01	No Access	DRY	DRY	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	DRY	<0.01	No Access	DRY	DRY	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	DRY	<0.01	No Access	DRY	DRY	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	<0.01	No Access	DRY	DRY	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	DRY	<0.01	No Access	DRY	DRY	<0.016
PAH 16 Total	0.027	ug/l	0.106	<0.01	<0.01	<0.027	<0.027	<0.1	DRY	<0.01	No Access	DRY	DRY	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	DRY	<1	No Access	DRY	DRY	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	No Access	DRY	DRY	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	No Access	DRY	DRY	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	<1	No Access	DRY	DRY	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	DRY	<1	No Access	DRY	DRY	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	DRY	<1	No Access	DRY	DRY	<1

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW10	TSW10	TSW10	TSW10	TSW10	TSW10	TSW11	TSW11	TSW11	TSW11	TSW11	TSW11
		Date Sampled / Units	Baseline 25/08/05	Round 1 07/07/06	Round 2 11/11/06	Round 3 03/08/07	Round 4 04/10/07	Round 5 05/06/08	Baseline 25/08/05	Round 1 07/07/06	Round 2 11/11/06	Round 3 03/08/07	Round 4 04/10/07	Round 5 05/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
MTBE	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Benzene	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Toluene	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Ethyl benzene	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
m & p Xylene	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
o Xylene	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aliphatics C5-C6	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aliphatics >C6-C8	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aliphatics >C8-C10	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aliphatics >C10-C12	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aliphatics >C12-C16	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aliphatics >C16-C21	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aliphatics >C21-C35	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Total Aliphatics C5-C35	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aromatics C6-C7	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aromatics >C7-C8	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aromatics >EC8-EC10	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aromatics >EC10-EC12	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aromatics >EC12-EC16	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aromatics >EC16-EC21	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Aromatics >EC21-EC35	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
Total Aromatics C6-C35	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
GRO (C4-C10)	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
GRO (C10-C12)	10	ug/l	<10	<10	No Access	DRY	DRY	DRY	DRY	<10	No Access	DRY	DRY	DRY
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Acenaphthylene	0.011	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Acenaphthene	0.015	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Fluorene	0.014	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Phenanthrene	0.022	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Anthracene	0.015	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Fluoranthene	0.017	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Pyrene	0.015	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Chrysene	0.013	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
PAH 16 Total	0.027	ug/l	<0.01	<0.01	No Access	DRY	DRY	DRY	DRY	<0.01	No Access	DRY	DRY	DRY
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	No Access	DRY	DRY	DRY	DRY	<1	No Access	DRY	DRY	DRY
Benzene	1	ug/l	<1	<1	No Access	DRY	DRY	DRY	DRY	<1	No Access	DRY	DRY	DRY
Toluene	1	ug/l	<1	<1	No Access	DRY	DRY	DRY	DRY	<1	No Access	DRY	DRY	DRY
Ethylbenzene	1	ug/l	<1	<1	No Access	DRY	DRY	DRY	DRY	<1	No Access	DRY	DRY	DRY
p/m-Xylene	1	ug/l	<1	<1	No Access	DRY	DRY	DRY	DRY	<1	No Access	DRY	DRY	DRY
o-Xylene	1	ug/l	<1	<1	No Access	DRY	DRY	DRY	DRY	<1	No Access	DRY	DRY	DRY

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW12	TSW12	TSW12	TSW12	TSW12	TSW12	TSW13	TSW13	TSW13	TSW13	TSW13	TSW13
		Date Sampled / Units	Baseline 31/08/05	Round 1 14/07/06	Round 2 11/11/06	Round 3 04/08/07	Round 4 04/10/07	Round 5 06/06/08	Baseline 01/09/05	Round 1 14/07/06	Round 2 11/1106	Round 3 04/08/07	Round 4 04/10/07	Round 5 06/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
MTBE	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Benzene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Toluene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
o Xylene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	No Access	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	No Access	<10	<10	NA	<10	<10	No Access	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	No Access	<10	<10	NA	<10	<10	No Access	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	No Access	<10	<10	NA	<10	<10	No Access	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	No Access	<0.026	<0.026	<0.1	<0.01	<0.01	No Access	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	No Access	<0.011	<0.011	<0.011	<0.01	<0.01	No Access	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	No Access	<0.014	<0.014	<0.014	<0.01	<0.01	No Access	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	No Access	<0.022	<0.022	<0.022	<0.01	<0.01	No Access	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	No Access	<0.017	<0.017	<0.017	<0.01	<0.01	No Access	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	No Access	<0.017	<0.017	<0.017	<0.01	<0.01	No Access	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	No Access	<0.013	<0.013	<0.013	<0.01	<0.01	No Access	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	No Access	<0.023	<0.023	<0.023	<0.01	<0.01	No Access	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	No Access	<0.027	<0.027	<0.027	<0.01	<0.01	No Access	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	No Access	<0.009	<0.009	<0.009	<0.01	<0.01	No Access	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	No Access	<0.014	<0.014	<0.014	<0.01	<0.01	No Access	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	No Access	<0.016	<0.016	<0.016	<0.01	<0.01	No Access	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	No Access	<0.016	<0.016	<0.016	<0.01	<0.01	No Access	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	No Access	<0.027	<0.027	<0.1	<0.01	<0.01	No Access	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	No Access	<1	<1	<2	NA	<1	No Access	<1	<1	<2
Benzene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	<1	No Access	<1	<1	<1
Toluene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	<1	No Access	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	No Access	<1	<1	<2	<1	<1	No Access	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	No Access	<1	<1	<2	<1	<1	No Access	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	<1	No Access	<1	<1	<1

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW14	TSW14	TSW14	TSW14	TSW14	TSW14	TSW16	TSW16	TSW16	TSW16	TSW16	TSW16
		Date Sampled / Units	Baseline 01/09/05	Round 1 14/07/06	Round 2 11/11/06	Round 3 04/08/07	Round 4 04/10/07	Round 5 10/06/08	Baseline 27/08/05	Round 1 07/07/06	Round 2 11/11/06	Round 3 04/08/07	Round 4 04/10/07	Round 5 06/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
MTBE	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Benzene	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Toluene	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Ethyl benzene	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
m & p Xylene	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
o Xylene	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aliphatics C5-C6	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aromatics C6-C7	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aromatics >C7-C8	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	DRY	No Access	DRY	DRY	<10	<10	<10	No Access	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	DRY	DRY	No Access	DRY	DRY	NA	<10	<10	No Access	<10	<10	NA
GRO (C4-C10)	10	ug/l	DRY	DRY	No Access	DRY	DRY	NA	<10	<10	No Access	<10	<10	NA
GRO (C10-C12)	10	ug/l	DRY	DRY	No Access	DRY	DRY	NA	<10	<10	No Access	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	DRY	No Access	DRY	DRY	<0.1	<0.01	<0.01	No Access	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	DRY	DRY	No Access	DRY	DRY	<0.011	<0.01	<0.01	No Access	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	DRY	DRY	No Access	DRY	DRY	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	DRY	DRY	No Access	DRY	DRY	<0.014	<0.01	<0.01	No Access	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	DRY	DRY	No Access	DRY	DRY	<0.022	<0.01	<0.01	No Access	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	DRY	DRY	No Access	DRY	DRY	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	DRY	DRY	No Access	DRY	DRY	<0.017	<0.01	<0.01	No Access	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	DRY	DRY	No Access	DRY	DRY	<0.015	<0.01	<0.01	No Access	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	DRY	DRY	No Access	DRY	DRY	<0.017	<0.01	<0.01	No Access	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	DRY	DRY	No Access	DRY	DRY	<0.013	<0.01	<0.01	No Access	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	DRY	DRY	No Access	DRY	DRY	<0.023	<0.01	<0.01	No Access	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	DRY	DRY	No Access	DRY	DRY	<0.027	<0.01	<0.01	No Access	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	DRY	DRY	No Access	DRY	DRY	<0.009	<0.01	<0.01	No Access	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	DRY	DRY	No Access	DRY	DRY	<0.014	<0.01	<0.01	No Access	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	DRY	DRY	No Access	DRY	DRY	<0.016	<0.01	<0.01	No Access	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	DRY	DRY	No Access	DRY	DRY	<0.016	<0.01	<0.01	No Access	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	DRY	DRY	No Access	DRY	DRY	<0.1	<0.01	<0.01	No Access	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	DRY	DRY	No Access	DRY	DRY	<2	NA	<1	No Access	<1	<1	<2
Benzene	1	ug/l	DRY	DRY	No Access	DRY	DRY	<1	<1	<1	No Access	<1	<1	<1
Toluene	1	ug/l	DRY	DRY	No Access	DRY	DRY	<1	<1	<1	No Access	<1	<1	<1
Ethylbenzene	1	ug/l	DRY	DRY	No Access	DRY	DRY	<2	<1	<1	No Access	<1	<1	<2
p/m-Xylene	1	ug/l	DRY	DRY	No Access	DRY	DRY	<2	<1	<1	No Access	<1	<1	<2
o-Xylene	1	ug/l	DRY	DRY	No Access	DRY	DRY	<1	<1	<1	No Access	<1	<1	<1

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW17	TSW17	TSW17	TSW17	TSW17	TSW17	TSW18	TSW18	TSW18	TSW18	TSW18	TSW18
		Date Sampled / Units	Baseline 25/08/05	Round 1 12/07/06	Round 2 06/11/06	Round 3 02/08/07	Round 4 19/10/07	Round 5 20/06/08	Baseline 17/08/2005	Round 1 08/07/06	Round 2 06/11/06	Round 3 31/08/07	Round 4 18/10/07	Round 5 20/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	<10	DRY	DRY	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	DRY	DRY	NA	<10	<10	<10	<10	210	NA
GRO (C4-C10)	10	ug/l	<10	<10	<10	DRY	DRY	NA	<10	<10	<10	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	DRY	DRY	NA	<10	<10	<10	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.1	0.172	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.015	0.07	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.014	0.052	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.022	0.106	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.02	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.023	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.028	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	0.016
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	DRY	DRY	0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	DRY	DRY	<0.1	0.4	<0.01	<0.01	<0.027	<0.027	<0.1
BTEX														
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	DRY	DRY	<2	NA	<1	<1	<1	<1	<2
Benzene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	DRY	DRY	<2	<1	<1	<1	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	<1	DRY	DRY	<2	<1	<1	<1	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	<1	DRY	DRY	<1	<1	<1	<1	<1	<1	<1

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW19	TSW19	TSW19	TSW19	TSW19	TSW19	TSW20	TSW20	TSW20	TSW20	TSW20	TSW20	TSW20
		Date Sampled / Units	Baseline 24/08/05	Round 1 09/07/06	Round 2 09/11/06	Round 3 19/08/07	Round 4 16/10/07	Round 5 06/06/08	Baseline 24/08/05	Round 1 12/07/06	Round 2 09/11/06	Round 3 19/08/07	Round 4 16/10/07	Round 5 06/06/08	Round 6 18/09/08
PETROLEUM HYDROCARBONS															
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aliphatics >C12-C16	10	ug/l	<10	<10	15	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	13	<10	<10	<10	NA
Total Aliphatics C5-C35	10	ug/l	<10	<10	15	<10	<10	<10	<10	<10	13	<10	<10	<10	NA
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Aromatics >EC21-EC35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
Total Aromatics C6-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	NA
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	15	<10	<10	<10	<10	<10	13	<10	<10	<10	NA
EPH (DRO) (C10-C40)	10	ug/l	<10	202	<10	<10	<10	NA	1137	<10	<10	<10	<10	NA	<10
GRO (C4-C10)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	NA
GRO (C10-C12)	10	ug/l	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	NA
POLYCYCLIC AROMATIC HYDROCARBONS															
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	0.35	<0.01	<0.01	<0.01	<0.026	0.17	3	<0.01
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	0.025	<0.01	<0.01	<0.01	<0.011	<0.011	0.041	NA
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	0.11	<0.01	<0.01	<0.01	<0.015	<0.015	0.9	NA
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	0.041	<0.01	<0.01	<0.01	<0.014	<0.014	0.27	NA
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	0.028	<0.01	<0.01	<0.01	<0.022	<0.022	0.13	NA
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	0.25	NA
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	NA
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	NA
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	NA
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	NA
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	NA
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	NA
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	NA
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	NA
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	NA
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	NA
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	0.55	<0.01	<0.01	<0.01	<0.027	0.17	4.4	NA
BTEX															
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	<1	<1	<1	<2	NA	<1	<1	<1	<1	<2	<2
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	9	<1	<1	<1	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2	<2
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<2	<1	<1	<1	<1	<1	<2	<2
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Location: **Tsalka.** Sample Type: **Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	TSW21	TSW21	TSW21	TSW21	TSW21	TSW21	TSW21	TSW22	TSW22	TSW22	TSW22	TSW22	TSW22
		Date Sampled / Units	Baseline 25/08/05	Round 1 13/07/06	Round 2 11/11/06	Round 3 19/08/07	Round 4 04/10/07	Round 5 06/06/08	Round 6 18/09/08	Baseline 30/08/2005	Round 1 13/07/06	Round 2 11/11/06	Round 3 19/08/07	Round 4 04/10/07	Round 5 06/06/08
PETROLEUM HYDROCARBONS															
GRO (C4-C12)	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10
MTBE	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Benzene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Toluene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10
o Xylene	10	ug/l	<10	<10	No Access	<10	<10	<10	<10	<10	<10	No Access	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	<10	No Access	<10	<10	<10	NA	<10	<10	No Access	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	No Access	<10	<10	NA	<10	<10	<10	No Access	<10	<10	NA
GRO (C4-C10)	10	ug/l	<10	<10	No Access	<10	<10	NA	NA	<10	<10	No Access	<10	<10	NA
GRO (C10-C12)	10	ug/l	<10	<10	No Access	<10	<10	NA	NA	<10	<10	No Access	<10	<10	NA
POLYCYCLIC AROMATIC HYDROCARBONS															
Naphthalene	0.026	ug/l	<0.01	<0.01	No Access	<0.026	<0.026	2.2	<0.01	<0.01	NA	No Access	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	No Access	<0.011	<0.011	0.035	NA	<0.01	NA	No Access	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	0.69	NA	<0.01	NA	No Access	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	No Access	<0.014	<0.014	0.21	NA	<0.01	NA	No Access	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	No Access	<0.022	<0.022	0.1	NA	<0.01	NA	No Access	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	0.023	NA	<0.01	NA	No Access	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	No Access	<0.017	<0.017	<0.017	NA	<0.01	NA	No Access	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	No Access	<0.015	<0.015	<0.015	NA	<0.01	NA	No Access	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	No Access	<0.017	<0.017	<0.017	NA	<0.01	NA	No Access	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	No Access	<0.013	<0.013	<0.013	NA	<0.01	NA	No Access	<0.013	<0.013	0.016
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	No Access	<0.023	<0.023	<0.023	NA	<0.01	NA	No Access	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	No Access	<0.027	<0.027	<0.027	NA	<0.01	NA	No Access	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	No Access	<0.009	<0.009	<0.009	NA	<0.01	NA	No Access	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	No Access	<0.014	<0.014	<0.014	NA	<0.01	NA	No Access	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	No Access	<0.016	<0.016	<0.016	NA	<0.01	NA	No Access	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	No Access	<0.016	<0.016	<0.016	NA	<0.01	NA	No Access	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	No Access	<0.027	<0.027	3.2	NA	<0.01	NA	No Access	<0.027	<0.027	<0.1
BTEX															
Methyl Tertiary Butyl Ether	1	ug/l	NA	<1	No Access	<1	<1	<2	<2	NA	<1	No Access	<1	<1	<2
Benzene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1
Toluene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1
Ethylbenzene	1	ug/l	<1	<1	No Access	<1	<1	<2	<2	<1	<1	No Access	<1	<1	<2
p/m-Xylene	1	ug/l	<1	<1	No Access	<1	<1	<2	<2	<1	<1	No Access	<1	<1	<2
o-Xylene	1	ug/l	<1	<1	No Access	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1

Location: **PSG2.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	PSG2MW1 Baseline 10/07/05	PSG2MW1 Round 1 14/06/06	PSG2MW1 Round 2 16/11/06	PSG2MW1 Round 3 16/07/07	PSG2MW1 Round 4 19/10/07	PSG2MW1 Round 5 14/06/08	PSG2SW1 Baseline 10/07/05	PSG2SW1 Round 1 14/06/06	PSG2SW1 Round 2 16/11/06	PSG2SW1 Round 3 16/07/07	PSG2SW1 Round 4 19/10/07	PSG2SW1 Round 5 14/06/08
METALS														
Arsenic Dissolved	1	ug/l	<1	<1	<1	<1	<1	NA	<1	NA	NA	NA	NA	NA
Barium Dissolved	1	ug/l	2	15	9	16	10	NA	3	NA	NA	NA	NA	NA
Boron Dissolved	10	ug/l	<10	93	61	27	<10	NA	<10	NA	NA	NA	NA	NA
Cadmium Dissolved	0.4	ug/l	<0.4	<0.4	<0.4	<0.4	<0.4	NA	<0.4	NA	NA	NA	NA	NA
Calcium Dissolved	5	ug/l	19170	125100	101700	97000	99000	NA	8903	NA	NA	NA	NA	NA
Chromium Dissolved	1	ug/l	2	<1	<1	2	7	NA	<1	NA	NA	NA	NA	NA
Copper Dissolved	1	ug/l	<1	<1	<1	6	<1	NA	1	NA	NA	NA	NA	NA
Iron Dissolved	5	ug/l	12	NA	NA	NA	NA	NA	16	NA	NA	NA	NA	NA
Iron Total (HNO3 Digest)	5	ug/l	NA	<1	116	78	<5	NA	NA	NA	NA	NA	NA	NA
Lead Dissolved	1	ug/l	<1	<1	<1	1	<1	NA	<1	NA	NA	NA	NA	NA
Magnesium Dissolved	5	ug/l	5250	32910	30890	32000	30000	NA	1209	NA	NA	NA	NA	NA
Manganese Dissolved	1	ug/l	<1	3	1	1	<1	NA	<1	NA	NA	NA	NA	NA
Nickel Dissolved	1	ug/l	<1	1	3	2	1	NA	<1	NA	NA	NA	NA	NA
Selenium Dissolved	1	ug/l	<1	158	<1	<1	3	NA	<1	NA	NA	NA	NA	NA
Mercury Dissolved	0.05	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	NA	NA	NA	NA
Total Alkalinity as CaCO3	2	mg/l	325	415	385	200	400	NA	160	NA	NA	NA	NA	NA
Potassium Dissolved	0.2	mg/l	0.2	1.1	0.8	0.8	1.2	NA	1.4	NA	NA	NA	NA	NA
Sodium Dissolved	0.2	mg/l	20.3	NA	18	21	36	NA	9.9	NA	NA	NA	NA	NA
Sodium Total	0.2	mg/l	8.9	15.8	NA	NA	NA	NA	5.1	NA	NA	NA	NA	NA
Nitrate as NO3	0.3	mg/l	2.8	19.2	21.9	22.0	22.0	NA	3.3	NA	NA	NA	NA	NA
Sulphate (soluble)	3	mg/l	10	14	16	14	14	NA	7	NA	NA	NA	NA	NA
Chloride	1	mg/l	14	13	10	11	10	NA	2	NA	NA	NA	NA	NA
Total Cyanide	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	NA	NA	NA	NA	NA
Free Cyanide	0.05	mg/l	<0.05	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA
pH Value	1	pH Units	<1	8.31	8.30	8.52	8.44	NA	8.65	NA	NA	NA	NA	NA

Location: **PSG2.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference / Date Sampled / Units	PSG2SW2	PSG2SW2	PSG2SW2a	PSG2SW2	PSG2SW2	PSG2SW2	PSG2SW3	PSG2SW3	PSG2SW3	PSG2SW3	PSG2SW3	PSG2SW3
			Baseline 10/07/05	Round1 14/06/06	Round2 16/11/06	Round3 16/07/07	Round4 19/10/07	Round5 14/06/08	Baseline 10/07/05	Round1 14/06/06	Round2 16/11/06	Round3 16/07/07	Round4 19/10/07	Round5 14/06/08
METALS														
Arsenic Dissolved	1	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Barium Dissolved	1	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Boron Dissolved	10	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Cadmium Dissolved	0.4	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Calcium Dissolved	5	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Chromium Dissolved	1	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Copper Dissolved	1	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Iron Dissolved	5	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Iron Total (HNO3 Digest)	5	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Lead Dissolved	1	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Magnesium Dissolved	5	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Manganese Dissolved	1	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Nickel Dissolved	1	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Selenium Dissolved	1	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Mercury Dissolved	0.05	ug/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Total Alkalinity as CaCO3	2	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Potassium Dissolved	0.2	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Sodium Dissolved	0.2	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Sodium Total	0.2	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Nitrate as NO3	0.3	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Sulphate (soluble)	3	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Chloride	1	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Total Cyanide	0.05	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
Free Cyanide	0.05	mg/l	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA
pH Value	1	pH Units	DRY	NA	NA	NA	NA	NA	No Access	NA	NA	NA	NA	NA

Location: **PSG2.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	PSG2MW1 Baseline 10/07/05	PSG2MW1 Round 1 14/06/06	PSG2MW1 Round 2 16/11/06	PSG2MW1 Round 3 16/07/07	PSG2MW1 Round 4 19/10/07	PSG2MW1 Round 5 14/06/08	PSG2SW1 Baseline 10/07/05	PSG2SW1 Round 1 14/06/06	PSG2SW1 Round 2 16/11/06	PSG2SW1 Round 3 16/07/07	PSG2SW1 Round 4 19/10/07	PSG2SW1 Round 5 14/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
GRO (C4-C10)	10	ug/l	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10
GRO (C10-C12)	10	ug/l	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	12	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	95	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	107	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	<10	18	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	<10	125	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	0.063	<0.01	<1	<0.026	<0.026	<0.1	<0.01	<0.01	<1	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<1	<0.011	<0.011	<0.011	<0.01	<0.01	<1	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	0.014	<0.01	<1	<0.015	<0.015	<0.015	<0.01	<0.01	<1	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<1	<0.014	<0.014	<0.014	<0.01	<0.01	<1	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	0.019	<0.01	<1	<0.022	<0.022	<0.022	<0.01	<0.01	<1	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<1	<0.015	<0.015	<0.015	<0.01	<0.01	<1	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<1	<0.017	<0.017	<0.017	<0.01	<0.01	<1	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<1	<0.015	<0.015	<0.015	<0.01	<0.01	<1	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<1	<0.017	<0.017	<0.017	<0.01	<0.01	<1	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<1	<0.013	<0.013	<0.013	<0.01	<0.01	<1	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<1	<0.023	<0.023	<0.023	<0.01	<0.01	<1	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<1	<0.027	<0.027	<0.027	<0.01	<0.01	<1	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<1	<0.009	<0.009	<0.009	<0.01	<0.01	<1	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<1	<0.014	<0.014	<0.014	<0.01	<0.01	<1	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<1	<0.016	<0.016	<0.016	<0.01	<0.01	<1	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<1	<0.016	<0.016	<0.016	<0.01	<0.01	<1	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	0.096	<0.01	<1	<0.027	<0.027	<0.1	<0.01	<0.01	<1	<0.027	<0.027	<0.1
	<0.01	ug/l												
SEMI-VOLATILE ORGANIC COMPOUNDS														
Phenols														
2-Chlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2-Methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2-Nitrophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4-Dichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4-Dimethylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4,5-Trichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4,6-Trichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Chloro-3-methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Nitrophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Pentachlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Phenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA

Location: **PSG2.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	PSG2SW2 Baseline 10/07/05	PSG2SW2 Round 1 14/06/06	PSG2SW2a Round 2 16/11/06	PSG2SW2 Round 3 16/07/07	PSG2SW2 Round 4 19/10/07	PSG2SW2 Round 5 14/06/08	PSG2SW3 Baseline 10/07/05	PSG2SW3 Round 1 14/06/06	PSG2SW3 Round 2 16/11/06	PSG2SW3 Round 3 16/07/07	PSG2SW3 Round 4 19/10/07	PSG2SW3 Round 5 14/06/08
PETROLEUM HYDROCARBONS														
GRO (C4-C12)	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
GRO (C4-C10)	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
GRO (C10-C12)	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
MTBE	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Benzene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Toluene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
o Xylene	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aromatics C6-C7	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
Total Aromatics C6-C35	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
TPH (Aliphatics and Aromatics C5-C35)	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
EPH (DRO) (C10-C40)	10	ug/l	DRY	DRY	<10	DRY	DRY	<10	No Access	<10	<10	<10	<10	<10
POLYCYCLIC AROMATIC HYDROCARBONS														
Naphthalene	0.026	ug/l	DRY	DRY	<1	DRY	DRY	<0.1	No Access	<0.01	<1	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	DRY	DRY	<1	DRY	DRY	<0.011	No Access	<0.01	<1	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	DRY	DRY	<1	DRY	DRY	<0.015	No Access	<0.01	<1	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	DRY	DRY	<1	DRY	DRY	<0.014	No Access	<0.01	<1	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	DRY	DRY	<1	DRY	DRY	<0.022	No Access	<0.01	<1	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	DRY	DRY	<1	DRY	DRY	<0.015	No Access	<0.01	<1	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	DRY	DRY	<1	DRY	DRY	<0.017	No Access	<0.01	<1	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	DRY	DRY	<1	DRY	DRY	<0.015	No Access	<0.01	<1	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	DRY	DRY	<1	DRY	DRY	<0.017	No Access	<0.01	<1	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	DRY	DRY	<1	DRY	DRY	<0.013	No Access	<0.01	<1	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	DRY	DRY	<1	DRY	DRY	<0.023	No Access	<0.01	<1	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	DRY	DRY	<1	DRY	DRY	<0.027	No Access	<0.01	<1	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	DRY	DRY	<1	DRY	DRY	<0.009	No Access	<0.01	<1	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	DRY	DRY	<1	DRY	DRY	<0.014	No Access	<0.01	<1	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	DRY	DRY	<1	DRY	DRY	<0.016	No Access	<0.01	<1	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	DRY	DRY	<1	DRY	DRY	<0.016	No Access	<0.01	<1	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	DRY	DRY	<1	DRY	DRY	<0.1	No Access	<0.01	<1	<0.027	<0.027	<0.1
	<0.01	ug/l							-					
SEMI-VOLATILE ORGANIC COMPOUNDS														
Phenols														
2-Chlorophenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2-Methylphenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2-Nitrophenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2,4-Dichlorophenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2,4-Dimethylphenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2,4,5-Trichlorophenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2,4,6-Trichlorophenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Chloro-3-methylphenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Methylphenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Nitrophenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Pentachlorophenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Phenol	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA

Location: **PSG2.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	PSG2MW1 Baseline 10/07/05	PSG2MW1 Round 1 14/06/06	PSG2MW1 Round 2 16/11/06	PSG2MW1 Round 3 16/07/07	PSG2MW1 Round 4 19/10/07	PSG2MW1 Round 5 14/06/08	PSG2SW1 Baseline 10/07/05	PSG2SW1 Round 1 14/06/06	PSG2SW1 Round 2 16/11/06	PSG2SW1 Round 3 16/07/07	PSG2SW1 Round 4 19/10/07	PSG2SW1 Round 5 14/06/08
Phthalates														
Bis(2-ethylhexyl) phthalate	1	ug/l	<1	<1	<1	<2	<2	NA	<1	<1	<1	<2	<2	NA
Butylbenzyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Di-n-butyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Di-n-Octyl phthalate	1	ug/l	<1	<1	<1	<5	<5	NA	<1	<1	<1	<5	<5	NA
Diethyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dimethyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Other Semi-volatiles														
1,2-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1,2,4-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1,3-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1,4-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4-Dinitrotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,6-Dinitrotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
3-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Bromophenylphenylether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Chloroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Chlorophenylphenylether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Azobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bis(2-chloroethoxy)methane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bis(2-chloroethyl)ether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Carbazole	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dibenzofuran	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Hexachlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Hexachlorobutadiene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Hexachlorocyclopentadiene	1	ug/l	<1	<1	<2	<2	<1	NA	<1	<1	<2	<2	<1	NA
Hexachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Isophorone	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
N-nitrosodi-n-propylamine	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Nitrobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
VOLATILE ORGANIC COMPOUNDS														
Dichlorodifluoromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Chloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Vinyl Chloride	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bromomethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Chloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Trichlorofluoromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
trans-1-2-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dichloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Carbon Disulphide	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1-Dichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Methyl Tertiary Butyl Ether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
cis-1-2-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bromochloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Chloroform	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2.2-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1.1-Trichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dibromomethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bromodichloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Trichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
cis-1-3-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
trans-1-3-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA

Location: **PSG2.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	PSG2SW2 Baseline 10/07/05	PSG2SW2 Round 1 14/06/06	PSG2SW2a Round 2 16/11/06	PSG2SW2 Round 3 16/07/07	PSG2SW2 Round 4 19/10/07	PSG2SW2 Round 5 14/06/08	PSG2SW3 Baseline 10/07/05	PSG2SW3 Round 1 14/06/06	PSG2SW3 Round 2 16/11/06	PSG2SW3 Round 3 16/07/07	PSG2SW3 Round 4 19/10/07	PSG2SW3 Round 5 14/06/08
Phthalates														
Bis(2-ethylhexyl) phthalate	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<2	<2	NA
Butylbenzyl phthalate	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Di-n-butyl phthalate	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Di-n-Octyl phthalate	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<5	<5	NA
Diethyl phthalate	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Dimethyl phthalate	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Other Semi-volatiles														
1,2-Dichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1,2,4-Trichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1,3-Dichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1,4-Dichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2-Nitroaniline	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2,4-Dinitrotoluene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2,6-Dinitrotoluene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
3-Nitroaniline	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Bromophenylphenylether	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Chloroaniline	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Chlorophenylphenylether	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Nitroaniline	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Azobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Bis(2-chloroethoxy)methane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Bis(2-chloroethyl)ether	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Carbazole	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Dibenzofuran	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Hexachlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Hexachlorobutadiene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Hexachlorocyclopentadiene	1	ug/l	DRY	DRY	<2	DRY	DRY	NA	No Access	<1	<2	<2	<1	NA
Hexachloroethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Isophorone	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
N-nitrosodi-n-propylamine	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Nitrobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
VOLATILE ORGANIC COMPOUNDS														
Dichlorodifluoromethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Chloromethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Vinyl Chloride	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Bromomethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Chloroethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Trichlorofluoromethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
trans-1-2-Dichloroethene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Dichloromethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Carbon Disulphide	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.1-Dichloroethene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.1-Dichloroethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Methyl Tertiary Butyl Ether	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
cis-1-2-Dichloroethene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Bromochloromethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Chloroform	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2.2-Dichloropropane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.2-Dichloroethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.1.1-Trichloroethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.1-Dichloropropene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Benzene	1	ug/l	DRY	DRY	<1	DRY	DRY	<1	No Access	<1	<1	<1	<1	<1
Carbontetrachloride	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Dibromomethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.2-Dichloropropane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Bromodichloromethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Trichloroethene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
cis-1-3-Dichloropropene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
trans-1-3-Dichloropropene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA

Location: **PSG2.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	PSG2MW1	PSG2MW1	PSG2MW1	PSG2MW1	PSG2MW1	PSG2MW1	PSG2SW1	PSG2SW1	PSG2SW1	PSG2SW1	PSG2SW1	PSG2SW1
		Date Sampled / Units	Baseline 10/07/05	Round 1 14/06/06	Round 2 16/11/06	Round 3 16/07/07	Round 4 19/10/07	Round 5 14/06/08	Baseline 10/07/05	Round 1 14/06/06	Round 2 16/11/06	Round 3 16/07/07	Round 4 19/10/07	Round 5 14/06/08
1.1.2-Trichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1.3-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dibromochloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dibromoethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Tetrachloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1.1.2-Tetrachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Chlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Styrene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1.2.2-Tetrachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1.2.3-Trichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Isopropylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bromobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2-Chlorotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Propylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Chlorotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2.4-Trimethylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Isopropyltoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.3.5-Trimethylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.4-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
sec-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
tert-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.3-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
n-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dibromo-3-chloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2.4-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Naphthalene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2.3-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Hexachlorobutadiene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA

Location: **PSG2.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference Date Sampled / Units	PSG2SW2 Baseline 10/07/05	PSG2SW2 Round 1 14/06/06	PSG2SW2a Round 2 16/11/06	PSG2SW2 Round 3 16/07/07	PSG2SW2 Round 4 19/10/07	PSG2SW2 Round 5 14/06/08	PSG2SW3 Baseline 10/07/05	PSG2SW3 Round 1 14/06/06	PSG2SW3 Round 2 16/11/06	PSG2SW3 Round 3 16/07/07	PSG2SW3 Round 4 19/10/07	PSG2SW3 Round 5 14/06/08
1.1.2-Trichloroethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Toluene	1	ug/l	DRY	DRY	<1	DRY	DRY	<1	No Access	<1	<1	<1	<1	<1
1.3-Dichloropropane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Dibromochloromethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.2-Dibromoethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Tetrachloroethene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.1.1.2-Tetrachloroethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Chlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Ethylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	<1	No Access	<1	<1	<1	<1	<1
p/m-Xylene	1	ug/l	DRY	DRY	<1	DRY	DRY	<1	No Access	<1	<1	<1	<1	<1
Bromoform	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Styrene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.1.2.2-Tetrachloroethane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
o-Xylene	1	ug/l	DRY	DRY	<1	DRY	DRY	<1	No Access	<1	<1	<1	<1	<1
1.2.3-Trichloropropane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Isopropylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Bromobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
2-Chlorotoluene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Propylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Chlorotoluene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.2.4-Trimethylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
4-Isopropyltoluene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.3.5-Trimethylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.2-Dichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.4-Dichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
sec-Butylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
tert-Butylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.3-Dichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
n-Butylbenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.2-Dibromo-3-chloropropane	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.2.4-Trichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Naphthalene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
1.2.3-Trichlorobenzene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA
Hexachlorobutadiene	1	ug/l	DRY	DRY	<1	DRY	DRY	NA	No Access	<1	<1	<1	<1	NA

Location: **PSG1.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3
		Date Sampled / Units	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 09/7/07	Round 4 22/10/07	Round 5 13/06/08	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 07/07/07	Round 4 22/10/07	Round 5 13/06/08	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 09/07/07	Round 4 22/10/07	Round 5 06/06/08
METALS																				
Arsenic Dissolved	1	ug/l	<1	3	1	3	<1	NA	2	3	3	<1	<1	NA	2	7	2	2	<1	NA
Barium Dissolved	1	ug/l	3	32	19	36	34	NA	13	21	19	21	26	NA	13	18	15	16	18	NA
Boron Dissolved	10	ug/l	145	851	903	900	750	NA	656	1309	1115	1300	1100	NA	939	1517	1476	1500	1300	NA
Cadmium Dissolved	0.4	ug/l	<0.4	<0.4	<0.4	<0.4	<0.4	NA	<0.4	<0.4	<0.4	<0.4	<0.4	NA	<0.4	<0.4	1.5	<0.4	<0.4	NA
Calcium Dissolved	5	ug/l	29,020	228600	220100	210000	210000	NA	201,600	290,000	208,100	230,000	200000	NA	295,900	349,800	314,900	260,000	270000	NA
Chromium Dissolved	1	ug/l	<1	2	<1	3	3	NA	<1	<1	<1	7	2	NA	<1	4	3	4	2	NA
Copper Dissolved	1	ug/l	<1	6	<1	4	<1	NA	3	4	<1	5	2	NA	4	4	2	6	1	NA
Iron Dissolved	5	ug/l	35	NA	NA	NA	NA	NA	14	NA	NA	NA	NA	NA	24	NA	NA	NA	NA	NA
Iron Total (HNO3 Digest)	5	ug/l	NA	<835	8279	9500	14000	NA	NA	12250	119500	9500	2500	NA	NA	10880	2181	4200	19000	NA
Lead Dissolved	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	1	<1	NA
Magnesium Dissolved	5	ug/l	5,146	40740	41910	40000	32000	NA	36,330	50160	38980	42,000	30000	NA	56,320	60880	60120	51,000	41000	NA
Manganese Dissolved	1	ug/l	162	5	5	2	3	NA	1010	144	222	24	300	NA	468	18	42	3	380	NA
Nickel Dissolved	1	ug/l	2	4	8	4	7	NA	6	4	7	22	560	NA	10	5	69	21	580	NA
Selenium Dissolved	1	ug/l	5	18	12	17	12	NA	18	29	25	22	14	NA	26	40	32	27	22	NA
Mercury Dissolved	0.05	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA
Total Alkalinity as CaCO3	2	mg/l	485	1110	300	620	350	NA	210	355	535	450	260	NA	175	170	220	210	350	NA
Potassium Dissolved	0.2	mg/l	6	4.5	4.5	5.4	4.8	NA	8.1	6.2	7.8	6.6	6.2	NA	9.3	7.2	7.2	6.6	7.1	NA
Sodium Dissolved	0.2	mg/l	285	258.0	258.8	310.0	330.0	NA	607.5	510	465	530	520.0	NA	750	615	585	680	610.0	NA
Sodium Total	0.2	mg/l	360	NA	NA	NA	NA	NA	442.5	NA	NA	NA	NA	NA	67.5	NA	89.7	NA	NA	NA
Nitrate as NO3	0.3	mg/l	<0.3	29.4	34.0	36.0	33.0	NA	1.7	34.4	51.7	53	48.0	NA	1.1	28	89.7	76	74.0	NA
Sulphate (soluble)	3	mg/l	864	800	755	710	700	NA	1793	1405	1198	1200	1000	NA	2260	1743	1594	1500	1400	NA
Chloride	1	mg/l	173	155	197	170	170	NA	302	243	213	220	200	NA	354	279	300	240	270	NA
Total Cyanide	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA
Free Cyanide	0.05	mg/l	<0.05	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA
pH Value	1	pH Units	7.87	7.93	7.83	7.88	7.75	NA	8.07	8.01	8.08	7.97	7.85	NA	8.15	8.00	8.11	8.16	7.73	NA
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
GRO (C4-C10)	10	ug/l	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10
GRO (C10-C12)	10	ug/l	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	38	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	45	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	95	<10	<10	160
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	54	<10	<10	<10	230	<10	<10	<10	<10	<10	160	<10	<10	<10	<10	<10	94
Total Aromatics C6-C35	10	ug/l	<10	54	<10	<10	<10	230	<10	<10	<10	<10	<10	160	<10	<10	<10	<10	<10	94
TPH (Total C5-C35)	10	ug/l	<10	54	<10	<10	<10	230	<10	<10	<10	<10	<10	160	<10	<10	95	<10	<10	250
EPH (DRO) (C10-C40)	10	ug/l	<10	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Location: **PSG1.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3
		Date Sampled / Units	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 09/7/07	Round 4 22/10/07	Round 5 13/06/08	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 07/07/07	Round 4 22/10/07	Round 5 13/06/08	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 09/07/07	Round 4 22/10/07	Round 5 06/06/08
METALS																				
Arsenic Dissolved	1	ug/l	<1	3	1	3	<1	NA	2	3	3	<1	<1	NA	2	7	2	2	<1	NA
Barium Dissolved	1	ug/l	3	32	19	36	34	NA	13	21	19	21	26	NA	13	18	15	16	18	NA
Boron Dissolved	10	ug/l	145	851	903	900	750	NA	656	1309	1115	1300	1100	NA	939	1517	1476	1500	1300	NA
Cadmium Dissolved	0.4	ug/l	<0.4	<0.4	<0.4	<0.4	<0.4	NA	<0.4	<0.4	<0.4	<0.4	<0.4	NA	<0.4	<0.4	1.5	<0.4	<0.4	NA
Calcium Dissolved	5	ug/l	29,020	228600	220100	210000	210000	NA	201,600	290,000	208,100	230,000	200000	NA	295,900	349,800	314,900	260,000	270000	NA
Chromium Dissolved	1	ug/l	<1	2	<1	3	3	NA	<1	<1	<1	7	2	NA	<1	4	3	4	2	NA
Copper Dissolved	1	ug/l	<1	6	<1	4	<1	NA	3	4	<1	5	2	NA	4	4	2	6	1	NA
Iron Dissolved	5	ug/l	35	NA	NA	NA	NA	NA	14	NA	NA	NA	NA	NA	24	NA	NA	NA	NA	NA
Iron Total (HNO3 Digest)	5	ug/l	NA	<835	8279	9500	14000	NA	NA	12250	119500	9500	2500	NA	NA	10880	2181	4200	19000	NA
Lead Dissolved	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	1	<1	NA
Magnesium Dissolved	5	ug/l	5,146	40740	41910	40000	32000	NA	36,330	50160	38980	42,000	30000	NA	56,320	60880	60120	51,000	41000	NA
Manganese Dissolved	1	ug/l	162	5	5	2	3	NA	1010	144	222	24	300	NA	468	18	42	3	380	NA
Nickel Dissolved	1	ug/l	2	4	8	4	7	NA	6	4	7	22	560	NA	10	5	69	21	580	NA
Selenium Dissolved	1	ug/l	5	18	12	17	12	NA	18	29	25	22	14	NA	26	40	32	27	22	NA
Mercury Dissolved	0.05	ug/l	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA
Total Alkalinity as CaCO3	2	mg/l	485	1110	300	620	350	NA	210	355	535	450	260	NA	175	170	220	210	350	NA
Potassium Dissolved	0.2	mg/l	6	4.5	4.5	5.4	4.8	NA	8.1	6.2	7.8	6.6	6.2	NA	9.3	7.2	7.2	6.6	7.1	NA
Sodium Dissolved	0.2	mg/l	285	258.0	258.8	310.0	330.0	NA	607.5	510	465	530	520.0	NA	750	615	585	680	610.0	NA
Sodium Total	0.2	mg/l	360	NA	NA	NA	NA	NA	442.5	NA	NA	NA	NA	NA	67.5	NA	89.7	NA	NA	NA
Nitrate as NO3	0.3	mg/l	<0.3	29.4	34.0	36.0	33.0	NA	1.7	34.4	51.7	53	48.0	NA	1.1	28	89.7	76	74.0	NA
Sulphate (soluble)	3	mg/l	864	800	755	710	700	NA	1793	1405	1198	1200	1000	NA	2260	1743	1594	1500	1400	NA
Chloride	1	mg/l	173	155	197	170	170	NA	302	243	213	220	200	NA	354	279	300	240	270	NA
Total Cyanide	0.05	mg/l	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA	<0.05	<0.05	<0.05	<0.05	<0.05	NA
Free Cyanide	0.05	mg/l	<0.05	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA	<0.05	NA	NA	NA	NA	NA
pH Value	1	pH Units	7.87	7.93	7.83	7.88	7.75	NA	8.07	8.01	8.08	7.97	7.85	NA	8.15	8.00	8.11	8.16	7.73	NA
PETROLEUM HYDROCARBONS																				
GRO (C4-C12)	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
GRO (C4-C10)	10	ug/l	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10
GRO (C10-C12)	10	ug/l	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10	NA	<10	<10	<10	<10	<10
MTBE	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Toluene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ethyl benzene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
m & p Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
o Xylene	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics C5-C6	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C6-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C8-C10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C10-C12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aliphatics >C12-C16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	38	<10	<10	<10
Aliphatics >C16-C21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	45	<10	<10	<10
Aliphatics >C21-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	<10	<10	<10
Total Aliphatics C5-C35	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	95	<10	<10	160
Aromatics C6-C7	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >C7-C8	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC8-EC10	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC10-EC12	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC12-EC16	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC16-EC21	10	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Aromatics >EC21-EC35	10	ug/l	<10	54	<10	<10	<10	230	<10	<10	<10	<10	<10	160	<10	<10	<10	<10	<10	94
Total Aromatics C6-C35	10	ug/l	<10	54	<10	<10	<10	230	<10	<10	<10	<10	<10	160	<10	<10	<10	<10	<10	94
TPH (Total C5-C35)	10	ug/l	<10	54	<10	<10	<10	230	<10	<10	<10	<10	<10	160	<10	<10	95	<10	<10	250
EPH (DRO) (C10-C40)	10	ug/l	<10	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10

Location: **PSG1.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3
		Date Sampled / Units	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 09/7/07	Round 4 22/10/07	Round 5 13/06/08	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 07/07/07	Round 4 22/10/07	Round 5 13/06/08	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 09/07/07	Round 4 22/10/07	Round 5 06/06/08
POLYCYCLIC AROMATIC HYDROCARBONS																				
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	0.076	0.111	<10	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	0.3	<10	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	0.022	0.126	<10	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	0.025	0.078	<10	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	0.033	<0.01	<10	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	0.021	<0.01	<10	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	0.139	<0.01	<10	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	0.371	<0.01	<10	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	0.031	<0.01	<10	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	0.051	<0.01	<10	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<10	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<10	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<10	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<10	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<10	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<10	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	0.769	0.615	<10	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1
SEMI-VOLATILE ORGANIC COMPOUNDS																				
Phenols																				
2-Chlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2-Methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2-Nitrophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4-Dichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4-Dimethylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4,5-Trichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4,6-Trichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Chloro-3-methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Nitrophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Pentachlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Phenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Phthalates																				
Bis(2-ethylhexyl) phthalate	1	ug/l	<1	<1	<1	<2	<2	NA	<1	<1	<1	<2	<2	NA	<1	<1	<1	<2	<2	NA
Butylbenzyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Di-n-butyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Di-n-Octyl phthalate	1	ug/l	<1	<1	<1	<5	<5	NA	<1	<1	<1	<5	<5	NA	<1	<1	<1	<5	<5	NA
Diethyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dimethyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Other Semi-volatiles																				
1,2-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1,2,4-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1,3-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1,4-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,4-Dinitrotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2,6-Dinitrotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
3-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Bromophenylphenylether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Chloroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Chlorophenylphenylether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Azobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bis(2-chloroethoxy)methane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bis(2-chloroethyl)ether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Carbazole	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dibenzofuran	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Hexachlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Hexachlorobutadiene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Hexachlorocyclopentadiene	1	ug/l	<1	<1	<2	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<2	<1	<1	NA
Hexachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Isophorone	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
N-nitrosodi-n-propylamine	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Nitrobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA

Location: **PSG1.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	PSG1MW4	PSG1MW4	PSG1MW4	PSG1MW4	PSG1MW4	PSG1MW4	PSG1MW5	PSG1MW5	PSG1MW5	PSG1MW5	PSG1MW5	PSG1MW5	PSG1BH1	PSG1BH1	PSG1BH1	PSG1SW1	PSG1SW1	PSG1SW1	PSG1SW1	PSG1SW1	PSG1SS1	PSG1SS1	PSG1SS1
		Date Sampled / Units	Baseline 09/07/05	Round 1 12/06/06	Round 2 07/12/06	Round 3 07/07/07	Round 4 22/10/07	Round 5 06/06/08	Baseline 09/07/05	Round 1 12/06/06	Round 2 17/11/06	Round 3 09/07/07	Round 4 22/10/07	Round 5 06/06/08	Round 3 16/08/07	Round 4 22/10/07	Round 5 07/06/08	Baseline 09/07/05	Round 1 12/06/06	Round 2 17/11/06	Round 3 09/07/07	Round 4 22/10/7	Round 5 06/06/08	Round 3 16/08/07	Round 4 22/10/07	Round 5 06/06/08
POLYCYCLIC AROMATIC HYDROCARBONS																		-								
Naphthalene	0.026	ug/l	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	<0.026	<0.1	<0.026	<0.026	<0.1	<0.01	<0.01	<0.01	<0.026	No Access	<0.1	<0.026	<0.026	NA
Acenaphthylene	0.011	ug/l	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	<0.011	<0.011	<0.011	<0.011	<0.011	<0.01	<0.01	<0.01	<0.011	No Access	<0.011	<0.011	<0.011	NA
Acenaphthene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	No Access	<0.015	<0.015	<0.015	NA
Fluorene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	No Access	<0.014	<0.014	<0.014	NA
Phenanthrene	0.022	ug/l	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.01	<0.01	<0.01	<0.022	No Access	<0.022	<0.022	<0.022	NA
Anthracene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	0.02	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	No Access	<0.015	<0.015	<0.015	NA
Fluoranthene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	No Access	<0.017	<0.017	<0.017	NA
Pyrene	0.015	ug/l	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	<0.015	<0.015	<0.015	<0.015	<0.015	<0.01	<0.01	<0.01	<0.015	No Access	<0.015	<0.015	<0.015	NA
Benz(a)anthracene	0.017	ug/l	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	<0.017	<0.017	<0.017	<0.017	<0.017	<0.01	<0.01	<0.01	<0.017	No Access	<0.017	<0.017	<0.017	NA
Chrysene	0.013	ug/l	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.01	<0.01	<0.01	<0.013	No Access	<0.013	<0.013	<0.013	NA
Benzo(b)fluoranthene	0.023	ug/l	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.01	<0.01	<0.01	<0.023	No Access	<0.023	<0.023	<0.023	NA
Benzo(k)fluoranthene	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	<0.01	<0.01	<0.01	<0.027	No Access	<0.027	<0.027	<0.027	NA
Benzo(a)pyrene	0.009	ug/l	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	<0.009	<0.009	<0.009	<0.009	<0.009	<0.01	<0.01	<0.01	<0.009	No Access	<0.009	<0.009	<0.009	NA
Indeno(123cd)pyrene	0.014	ug/l	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	<0.014	<0.014	<0.014	<0.014	<0.014	<0.01	<0.01	<0.01	<0.014	No Access	<0.014	<0.014	<0.014	NA
Dibenzo(ah)anthracene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	No Access	<0.016	<0.016	<0.016	NA
Benzo(ghi)perylene	0.016	ug/l	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.01	<0.01	<0.01	<0.016	No Access	<0.016	<0.016	<0.016	NA
PAH 16 Total	0.027	ug/l	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	<0.027	<0.027	<0.1	<0.027	<0.027	<0.1	<0.01	<0.01	<0.01	<0.027	No Access	<0.1	<0.027	<0.027	NA
SEMI-VOLATILE ORGANIC COMPOUNDS																										
Phenols																										
2-Chlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2-Methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2-Nitrophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2,4-Dichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2,4-Dimethylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2,4,5-Trichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2,4,6-Trichlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Chloro-3-methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Methylphenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Nitrophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Pentachlorophenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Phenol	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Phthalates																										
Bis(2-ethylhexyl) phthalate	1	ug/l	<1	<1	<1	<2	<2	NA	<1	<1	<1	<2	<2	NA	<2	<2	NA	<1	<1	<1	<2	No Access	NA	<2	<2	NA
Butylbenzyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Di-n-butyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Di-n-Octyl phthalate	1	ug/l	<1	<1	<1	<5	<5	NA	<1	<1	<1	<5	<5	NA	<5	<5	NA	<1	<1	<1	<5	No Access	NA	<5	<5	NA
Diethyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Dimethyl phthalate	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Other Semi-volatiles																										
1,2-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1,2,4-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1,3-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1,4-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2,4-Dinitrotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2,6-Dinitrotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
3-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Bromophenylphenylether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Chloroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Chlorophenylphenylether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Nitroaniline	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Azobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Bis(2-chloroethoxy)methane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Bis(2-chloroethyl)ether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Carbazole	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Dibenzofuran	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Hexachlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Hexachlorobutadiene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Hexachlorocyclopentadiene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<2	<1	<1	NA	<1	<1	NA	<1	<1	<2	<1	No Access	NA	<1	<1	NA
Hexachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Isophorone	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
N-nitrosodi-n-propylamine	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Nitrobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA

Location: **PSG1.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW1	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW2	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3	PSG1MW3
		Date Sampled / Units	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 09/7/07	Round 4 22/10/07	Round 5 13/06/08	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 07/07/07	Round 4 22/10/07	Round 5 13/06/08	Baseline 09/07/05	Round 1 13/06/06	Round 2 17/11/06	Round 3 09/07/07	Round 4 22/10/07	Round 5 06/06/08
VOLATILE ORGANIC COMPOUNDS																				
Dichlorodifluoromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Chloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Vinyl Chloride	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bromomethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Chloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Trichlorofluoromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
trans-1-2-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dichloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Carbon Disulphide	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1-Dichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Methyl Tertiary Butyl Ether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
cis-1-2-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bromochloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Chloroform	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2.2-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1.1-Trichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Carbontetrachloride	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dibromomethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bromodichloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Trichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
cis-1-3-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
trans-1-3-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1.2-Trichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1.3-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Dibromochloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dibromoethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Tetrachloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1.1.2-Tetrachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Chlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Bromoform	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Styrene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.1.2.2-Tetrachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
1.2.3-Trichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Isopropylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Bromobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
2-Chlorotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Propylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Chlorotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2.4-Trimethylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
4-Isopropyltoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.3.5-Trimethylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.4-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
sec-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
tert-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.3-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
n-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2-Dibromo-3-chloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2.4-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Naphthalene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
1.2.3-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA
Hexachlorobutadiene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA

Location: **PSG1.** Sample Type: **Groundwater and Surface water.** Sampling Dates: **June 2008.** Sampling Round: **Round 5.**

Analyte	Method Detection Limit	Sample Reference	PSG1MW4	PSG1MW4	PSG1MW4	PSG1MW4	PSG1MW4	PSG1MW4	PSG1MW5	PSG1MW5	PSG1MW5	PSG1MW5	PSG1MW5	PSG1MW5	PSG1BH1	PSG1BH1	PSG1BH1	PSG1SW1	PSG1SW1	PSG1SW1	PSG1SW1	PSG1SW1	PSG1SW1	PSG1SS1	PSG1SS1	PSG1SS1
		Date Sampled / Units	Baseline 09/07/05	Round 1 12/06/06	Round 2 07/12/06	Round 3 07/07/07	Round 4 22/10/07	Round 5 06/06/08	Baseline 09/07/05	Round 1 12/06/06	Round 2 17/11/06	Round 3 09/07/07	Round 4 22/10/07	Round 5 06/06/08	Round 3 16/08/07	Round 4 22/10/07	Round 5 07/06/08	Baseline 09/07/05	Round 1 12/06/06	Round 2 17/11/06	Round 3 09/07/07	Round 4 22/10/7	Round 5 06/06/08	Round 3 16/08/07	Round 4 22/10/07	Round 5 06/06/08
VOLATILE ORGANIC COMPOUNDS																										
Dichlorodifluoromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Chloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Vinyl Chloride	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Bromomethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Chloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Trichlorofluoromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
trans-1-2-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Dichloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Carbon Disulphide	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.1-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.1-Dichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Methyl Tertiary Butyl Ether	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
cis-1-2-Dichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Bromochloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Chloroform	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2.2-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.2-Dichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.1.1-Trichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.1-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Benzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1	NA
Carbontetrachloride	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Dibromomethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.2-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Bromodichloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Trichloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
cis-1-3-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
trans-1-3-Dichloropropene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.1.2-Trichloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Toluene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1	NA
1.3-Dichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Dibromochloromethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.2-Dibromoethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Tetrachloroethene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.1.1.2-Tetrachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Chlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Ethylbenzene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1	NA
p/m-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1	NA
Bromoform	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Styrene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.1.2.2-Tetrachloroethane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
o-Xylene	1	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	No Access	<1	<1	<1	NA
1.2.3-Trichloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Isopropylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Bromobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
2-Chlorotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Propylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Chlorotoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.2.4-Trimethylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
4-Isopropyltoluene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.3.5-Trimethylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.2-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.4-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
sec-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
tert-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.3-Dichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
n-Butylbenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.2-Dibromo-3-chloropropane	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.2.4-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Naphthalene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
1.2.3-Trichlorobenzene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA
Hexachlorobutadiene	1	ug/l	<1	<1	<1	<1	<1	NA	<1	<1	<1	<1	<1	NA	<1	<1	NA	<1	<1	<1	<1	No Access	NA	<1	<1	NA

Round 6 Monitoring Results

Sample Identity				BSW1_R006_08	BSW2_R006_08	BSW3_R006_08	BSW4_R006_08	BSW5_R006_08	BSW6_R006_08	BSW9_R006_08	DUPLICATE 1	DUPLICATE 2
Depth				-	-	-	-	-	-	-	-	-
Sample Type				LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Sample Received Date				22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008
Sampled Date				11/09/2008	11/09/2008	11/09/2008	11/09/2008	11/09/2008	11/09/2008	11/09/2008	11/09/2008	12/09/2008
Batch				1	1	1	1	1	1	1	1	1
Sample Number(s)				1-2	3-4	5-6	7-8	9	10-12	13-14	15-16	17-18
	Method	**Units**	**Method Detection Limit**									
EPH (DRO) (C10-C40) Aqueous	TM172	ug/l	<10	<10	<10	<10	<10	-	-	<10	<10	<10
PAH by GCMS												
Naphthalene Aqueous	TM178	ng/l	<100	<100	<100	<100	<100	-	-	<100	<100	<100
Volatile Organic Compounds												
Methyl Tertiary Butyl Ether	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

contd.

Sample Identity		KTSW3_R006_08	KTSW5_R006_08	KTSW9_R006_08	KTSW12_R006_08	KTSW13_R006_08	KTSW14_R006_08	KTSW15_R006_08	KTSW17_R006_08	KTSW18_R006_08	BLANK 1_R006_08	TSW19_R006_08
Depth		-	-	-	-	-	-	-	-	-	-	-
Sample Type		LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Sample Received Date		22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008	22/09/2008
Sampled Date		12/09/2008	12/09/2008	12/09/2008	13/09/2008	13/09/2008	13/09/2008	13/09/2008	12/09/2008	12/09/2008	13/09/2008	12/09/2008
Batch		1	1	1	1	1	1	1	1	1	1	1
Sample Number(s)		19-20	21-22	23-24	25-26	27-28	29-30	31-32	34-35	33,36	37	38-39
	Method Detection Limit											
EPH (DRO) (C10-C40) Aqueous	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	<10
PAH by GCMS												
Naphthalene Aqueous	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	<100
Volatile Organic Compounds												
Methyl Tertiary Butyl Ether	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Sample Identity				BMW9-R006-08	BMW10-R006-08	BMW11-R006-08	BSW7-R006-08	BSW8-R006-08	DUPLICATE 3-R006-08	DUPLICATE 4-R006-08	DUPLICATE 5-R006-08
Depth				-	-	-	-	-	-	-	-
Sample Type				LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Sample Received Date				24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008
Sampled Date											
Batch				2	2	2	2	2	2	2	2
Sample Number(s)				40,45	41-42	43-44	46-47	48-49	52-53	54-55	56-57
	Method	**Units**	**Method Detection Limit**								
EPH (DRO) (C10-C40) Aqueous	TM172	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10
PAH by GCMS											
Naphthalene Aqueous	TM178	ng/l	<100	<100	<100	<100	<100	<100	<100	<100	<100
Volatile Organic Compounds											
Methyl Tertiary Butyl Ether	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1

contd.

Sample Identity				DUPLICATE 6-R006-08	RINS1-R006-08	TMW8-R006-08	TMW11-R006-08	TRIPBLANK 2-R006-08	TSW6-R006-08	TSW7-R006-08	TSW20-R006 08	TSW21-R006 08	TSW22-R006 08
Depth				-	-	-	-	-	-	-	-	-	-
Sample Type				LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Sample Received Date				24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008	24/09/2008
Sampled Date													
Batch				2	2	2	2	2	2	2	2	2	2
Sample Number(s)				58-61	66-67	74-75	85-86	79	82-83	50,84	81,92	93,99	94-95
	Method Detection Limit												
EPH (DRO) (C10-C40) Aqueous	<10	<10	<10	<10	<10	<10	<10	-	<10	<10	<10	<10	<10
PAH by GCMS													
Naphthalene Aqueous	<100	<100	<100	<100	<100	<100	<100	-	<100	<100	<100	<100	<100
Volatile Organic Compounds													
Methyl Tertiary Butyl Ether	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Sample Identity				BMW2_R006_08	BMW3_R006_08	BMW8_R006_08	BSW5_R006_08	DUPLICATE7_R006_08	DUPLICATE8_R006_08	KTMW1_R006_08	KTMW2_R006_08	KTMW3_R006_08	KTMW7_R006_08	KTMW10_R006_08	KTMW11_R006_08
Depth				-	-	-	-	-	-	-	-	-	-	-	-
Sample Type				LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Sample Received Date				01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008
Sampled Date				27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008
Batch				3	3	3	3	3	3	3	3	3	3	3	3
Sample Number(s)				101-102	103-104	105-106	107-108	109-110	111-112	113-114	115-116	117-118	119-120	121-122	123-124
	Method	**Units**	**Method Detection Limit**												
EPH (DRO) (C10-C40) Aqueous	TM172	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PAH by GCMS															
Naphthalene Aqueous	TM178	ng/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Volatile Organic Compounds															
Methyl Tertiary Butyl Ether	TM208	ug/l	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	TM208	ug/l	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	TM208	ug/l	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	TM208	ug/l	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	TM208	ug/l	<2	<2	<2	<2	-	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	TM208	ug/l	<1	<1	<1	<1	-	<1	<1	<1	<1	<1	<1	<1	<1

contd.

Sample Identity		KTMW12_R006_08	KTMW14_R006_08	KTSW1_R006_08	KTSW2_R006_08	RINS5_R006_08	RINS6_R006_08	RINS7_R006_08	TMW4_R006_08	TMW5_R006_08	TMW6_R006_08	TMW16_R006_08	TRIP BLANK 4_R006_08	TRIP BLANK 5_R006_08	TSW2_R006_08
Depth		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sample Type		LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
Sample Received Date		01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008	01/10/2008
Sampled Date		27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008	27/09/2008
Batch		3	3	3	3	3	3	3	3	3	3	3	3	3	3
Sample Number(s)		125-126	127-128	129-130	131-132	133-134	135-136	137-138	139-140	141-142	143-144	145-146	148	147	149-150
	Method Detection Limit														
EPH (DRO) (C10-C40) Aqueous	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	-	-	<10
PAH by GCMS															
Naphthalene Aqueous	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	-	-	<100
Volatile Organic Compounds															
Methyl Tertiary Butyl Ether	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

			Sample Identity	BMW6_R006_08	BMW7_R006_08	DUPLICATE 9_R006_08	DUPLICATE 10_R006_08	KTMW16A_R006_08	KTMW17_R006_08	KTSW16_R006_08	PSG1MW1_R006_08	PSG1MW2_R006_08	PSG1MW3_R006_08	PSG1MW4_R006_08	PSG1MW5_R006_08	PSG1MW6_R006_08
			Depth													
			Sample Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
			Sample Received Date	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008
			Sampled Date	30/09/2008	30/09/2008	04/10/2008	04/10/2008	01/10/2008	01/10/2008	01/10/2008	05/10/2008	04/10/2008	04/10/2008	04/10/2008	04/10/2008	04/10/2008
			Batch	4	4	4	4	4	4	4	4	4	4	4	4	4
			Sample Number(s)	151-152	153-154	155-156	157-158	159-160	161-162	163-164	166-167	168-169	174,177	170,176	171-172	173,175
	Method	Units	Method Detection Limit													
EPH (DRO) (C10-C40) Aqueous	TM172	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
PAH by GCMS																
Naphthalene Aqueous	TM178	ng/l	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Volatile Organic Compounds																
Methyl Tertiary Butyl Ether	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	TM208	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	TM208	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

contd.

			Sample Identity	PSG1SW1_R006_08	PSG2MW1_R006_08	PSG2SW1_R006_08	PSG2SW3_R006_08	TMW1_R006_08	TMW17_R006_08	TMW18_R006_08	TRIP BLANK 6_R006_08	TRIP BLANK 7_R006_08	TSW1_R006_08	TSW3_R006_08	TSW4_R006_08	TSW15_R006_08	TSW18_R006_08
			Depth														
			Sample Type	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID	LIQUID
			Sample Received Date	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008	08/10/2008
			Sampled Date	03/10/2008	05/10/2008	05/10/2008	04/10/2008	03/10/2008	02/10/2008	02/10/2008	04/10/2008	04/10/2008	03/10/2008	02/10/2008	02/10/2008	02/10/2008	02/10/2008
			Batch	4	4	4	4	4	4	4	4	4	4	4	4	4	4
			Sample Number(s)	165,178	179-180	181-182	183-184	185-186	187-188	189-190	191	192	193-194	195-196	197-198	199-200	201-202
	Units	Method Detection Limit															
EPH (DRO) (C10-C40) Aqueous	ug/l	<10	<10	<10	<10	<10	<10	<10	<10	-	-	-	<10	52	<10	<10	<10
PAH by GCMS																	
Naphthalene Aqueous	ng/l	<100	<100	<100	<100	<100	<100	<100	<100	-	-	-	<100	<100	<100	<100	<100
Volatile Organic Compounds																	
Methyl Tertiary Butyl Ether	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Benzene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Toluene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Ethylbenzene	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
p/m-Xylene	ug/l	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
o-Xylene	ug/l	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1

Appendix 2.2f – Waste

Total Figures, 2008

TYPE OF WASTE (m^3)	PSG1 (site and camp)	PSG2 (site and camp)	SES Tsalka	SES Borjomi	BVs	SES Rustavi and Tbilisi Office
Hazardous waste disposed offsite						
Oily solids	10.7	16.8	1	0.6	0	2.6
Oily liquids	7.6	2128	6.2	0.2	36	2.4
Sewage sludge	298	316	0	76	0	54
Wax	1.2	2.8	0	0	0.8	0
Other	17.5	20.9	0	7.5	2.2	1.4
Non-hazardous waste re-cycled/recovered offsite						
Glass (stored)	3.2	5.0	0	0.1	0	0
Plastic (stored)	94.3	11.6	11.2	4.5	0	7.5
Paper (stored)	96.2	12.4	10.1	4	0	11.1
Metal (stored)	10.3	3.3	0	0.2	0	0
Timber (stored)	4.7	2.8	0	0.3	0	0
Organic Wastes (food wastes)	88.7	95	0	0	0	0
General	479	322	7.2	4	0	37.1

APPENDIX 2.3: TURKEY

Appendix 2.3a – Ambient Air Quality

Air Quality Standards for Ground Level Concentrations (µg/m^3)

Parameter	Project Standards (Turkey)	Averaging Period
VOCs	Benzene: 5	Annual average by 2010. A limit value of 10 µg/m^3 (100%) must be met on 13 December 2000, reducing on 1 January 2006 and every 12 months thereafter by 1 µg/m^3 to reach 0% (5 µg/m^3) by 1 January 2010.
Oxides of Nitrogen (NO_x)	40	Annual mean
Sulphur Dioxide (SO_2)	20*	24 hour average

Ceyhan Marine Terminal - Averages of 2008 Measurements

No.	Monitoring Date	Average Ambient Concentrations (µg/m^3)						
		SO_2	NOx	Benzene	Toluene	Ethyl Benzene	o-xylene	mp-xylene
CMT 1	Jan-Apr-July-Oct 2008	7.27	12.78	1.22	1.16	1.08	1.27	4.65
CMT 2		9.28	12.05	0.95	2.73	5.25	7.51	26.68
CMT 3		14.88	11.09	0.91	2.06	3.41	4.48	16.36
CMT 4		5.4	10.3	0.94	1.18	1.81	0.23	8.15
CMT 5		9.17	15.52	1.07	1.06	1.19	0.62	2.24
CMT 6		5.48	13.5	1.17	6.81	1	1.16	4.07
CMT 7		4.43	11.4	0.97	1.66	2.4	3.18	11.44
CMT 8		10.73	15.63	1.05	1.51	0.55	0.42	1.44
CMT 9		5.01	11.58	1.17	2.28	1.61	1.93	6.5
CMT 10		4.6	9.21	1.06	2.72	1.34	1.54	5.4

Appendix 2.3b – Stack Emissions

Stack Emission Standards

Emission stream sources	Parameters	Project Specified Standard
5 MW Reciprocating engines (gas fired) (PTs 1, 2, 3 and 4)	NO_x	500 mg/Nm^3 (5% Volumetric O_2)
	SO_2	60 mg/Nm^3 (5% Volumetric O_2)
	CO	650 mg/Nm^3 (5% Volumetric O_2)
	PM	130 mg/Nm^3 (5% Volumetric O_2)
Water Heaters (diesel fired) (Wax Handling Boilers at CMT, IPT1 and IPT2)	NO_x	460 mg/Nm^3 (3% Volumetric O_2)
	SO_2	1,000 mg/Nm^3 (3% Volumetric O_2)
	CO	150 mg/Nm^3 (3% Volumetric O_2)
	Soot	2
Water Heaters (gas and LPG fired) (CMT, PTs 1, 2, 3 and 4)	NO_x	320 mg/Nm^3 (3% Volumetric O_2)
	SO_2	100 mg/Nm^3 (3% Volumetric O_2)
	CO	100 mg/Nm^3 (3% Volumetric O_2)
	PM	10 mg/Nm^3 (3% Volumetric O_2)
Generators (diesel fired) (monitored only if the annual run time is < 500 hrs)	NOx	460 mg/Nm^3 (15% Volumetric O_2)
	SO_2	900 mg/Nm^3 (15% Volumetric O_2)
	Soot	2
	CO	250 mg/Nm^3 (15% Volumetric O_2)
	PM	75 mg/Nm^3 (15% Volumetric O_2)

NOTE: Figures in red show non-compliance with project standards

Stack Emission Monitoring Results for Pump Stations

Facility	Parameter	Emission Source							
		Driver Engine 1	Driver Engine 2	Driver Engine 3	Driver Engine 4	Driver Engine 5	Water Heater 1	Water Heater 2	Water Heater 3
PT1									
Date		**May '08**							
Monitoring result	NOx	162	142	99	126	213	100	68	82
	SO_2	0	0	0	0	0	0	0	0
	PM	2.52	1.88	1.84	1.86	2.19	0.39	0.28	0.38
	CO	106	99	109	91	92	8	23	24
PT2									
Date		**May '08**				**Not existing**	**May '08**		
Monitoring result	NOx	298	350	253	231		110	96	79
	SO_2	0	0	0	0		0	0	0
	PM	2.1	1.21	26	28		0.51	0.99	0.43
	CO	26	26	1.29	1.28		3	0	7
PT3									
Date		**May '08**							
Monitoring result	NOx	245	273	258	257	255	109	103	123
	SO_2	0	0	0	6	21	0	0	0
	PM	1.3	1.33	1.46	1.24	1.84	0.49	0.79	0.69
	CO	45	72	107	112	107	0	1	1
PT4									
Date		**May '08**				**Not existing**	**May '08**		
Monitoring result	NOx	492	304	336	363		119	114	97
	SO_2	12	7	0	0		0	0	0
	PM	1.28	1.49	1.54	1.21		0.72	0.68	0.38
	CO	25	32	31	60		0	0	0

Stack Emission Monitoring Results for Intermediate Pigging and Pressure Reduction Station

Facility	Parameter	Emission Source				
		Wax Handling Water Heater		Diesel Generator		
IPT1						
Date		**Apr '08**		**n/a since runs < 500 hrs/year**		
Monitoring result	NOx	117				
	SO_2	0				
	soot	1.8				
	CO	16				
IPT2						
Date		**May '08**	**n/a since wasn't in the programme**	**May '08**	**Aug '08**	
Monitoring result	NOx	84		457	2,535	
	SO_2	0		0	68	
	soot	1.7		4.7	1.7	
	CO	1		726	230	
	PM	n/a		15.85	29.15	

Stack Emission Monitoring Results for Ceyhan Marine Terminal

Facility	Parameter	Emission Source		Parameter	Emission Source			
		Process Area Wax Handling Boiler (diesel)	Metering Wax Handling Boiler (diesel)		General Facilities Water Heater 1 (LPG)	General Facilities Water Heater 2 (LPG)	Housing Compound Water Heater (LPG)	Process Area Water Heater (LPG)
CMT								
Date		**May '08**			**May '08**			
Monitoring result	NOx	132	92	NOx	126	129	127	111
	SO_2	4	8	SO_2	0	0	0	0
	PM	2	1.3	PM	0.48	0.6	0.55	0.63
	CO	6	46	CO	0	0	0	0

Appendix 2.3c – Aqueous Discharges

Aqueous Discharge Standards

Waste stream sources	Parameters	Project Specified Standard
Aqueous discharges to surface and marine waters from oily water separators	All limits 95th percentiles of annual operational hours.	
	pH	6-9 for fresh water and 5-9 for marine water
	Oil and grease	10 mg/l
	Total suspended solids	35 mg/l
	Metals	
	Heavy metals, total	10 mg/l
	Cd	0.05 mg/l
	Cr total	0.5 mg/l
	Cu	0.5 mg/l
	Pb	0.5 mg/l
	Hg	0.01 mg/l
	Ni	0.5 mg/l
	Zn	2 mg/l
	NH_4	10 mg/l
	Phenols	0.5 mg/l
	Sulphur	1 mg/l
Aqueous discharges to surface waters from sewage treatment plants	pH	6-9
	BOD	25 mg/l
	COD	125 mg/l
	Oil and grease	10 mg/l
	Total suspended solids	35 mg/l
	Chlorine, total residual	0.2 mg/l
	Coliform bacteria	<400MPN/100ml

NOTE: Figures in red show non-compliance with project standards

Table Notes:

1. When it is stated that there is 'no discharge' it means that the water was sampled but not discharged since the final effluent was not compliant with the Project Standards. In this case non-compliant waste water was re-cycled or when the capacity of the plant was exceeded it was disposed of at a Project approved Municipal WWTP. At CMT where there is a construction phase WWTP still in place, the waste water was transferred to this plant for treatment if it was operating in compliance with Project Standards.

2. When it is stated that there is 'no flow' it means that the water could not be sampled since there was no flow at the time of monitoring.

PT1 Aqueous Discharges Monitoring Results

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
Ops WWTP												
pH	No discharge	6.74	7.40	6.50	No discharge							
BOD (mg/l)		10.60	28	10								
COD (mg/l)		<20	32.70	<20								
Oil and grease (mg/l)		<1.5	3.6	7.40								
TSS (mg/l)		19.60	11.6	13.20								
Total residual chlorine (mg/l)		0.11	0.08	0.18								
Coliform bacteria		0	0	0								
Storm Water Pond (SWP)												
pH	No discharge	8.97	8.76	8.52	No discharge							
BOD (mg/l)		6.40	10	12.60								
COD (mg/l)		<20	35.70	<20								
Oil and grease (mg/l)		5.80	5.60	2.40								
TSS (mg/l)		10.40	12	23.60								
Total residual chlorine (mg/l)		0.08	0.11	0.17								
Coliform bacteria		0	0	0								
OWS												
pH	8.78	No flow		6.95	7.55	8.86	6.23	6.3	4.97	6.5	6.22	6.45
Oil and grease (mg/l)	<15			7.4	1.8	<1.5	3.8	<1.5	<1.5	<1.5	<1.5	5.20
TSS (mg/l)	2			31.6	15.6	21.2	26	9.2	16.4	10.4	12.4	8
Heavy metals. total (mg/l)	<0.55	n/a since wasn't in the programme		0	n/a since wasn't in the programme		<0.63	n/a since wasn't in the programme		<0.63	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			0			<0.02			<0.02		
Cr total (mg/l)	<0.03			0			<0.03			0.046		
Cu (mg/l)	<0.1			0			0.153			<0.1		
Pb (mg/l)	<0.1			0			<0.1			<0.1		
Hg (mg/l)	<0.0002			0			<0.0002			<0.0002		
Ni (mg/l)	<0.1			0			0.13			0.163		
Zn (mg/l)	<0.2			0			<0.2			<0.2		
NH4 (mg/l)	<0.15			<0.15			<0.15			<0.15		
Phenols (mg/l)	<0.0016			<0.0016			0.0521			0.077		
Sulphur (mg/l)	0.8			<0.2			0.8			<0.2		

PT2 Aqueous Discharges Monitoring Results

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
Ops WWTP												
pH	No discharge				8,37	No discharge					7,8	No discharge
BOD (mg/l)					5,2						7,6	
COD (mg/l)					<20						<20	
Oil and grease (mg/l)					2,60						<1,5	
TSS (mg/l)					9,2						13,2	
Total residual chlorine (mg/l)					0,15						0,14	
Coliform bacteria					>240						0	
Storm Water Pond (SWP)												
pH; BOD (mg/l); COD (mg/l); Oil and grease (mg/l); TSS (mg/l); Total residual chlorine (mg/l); Coliform bacteria	No discharge											
SWP upstream												
pH	8.12	8.18	8.29	8.28	7.52	8.19	8.68	8.09	9	8.36	7.41	7.8
BOD (mg/l)	<4	<4	<4	<4	<4	<4	<4	9.8	9	<4	<4	<4
COD (mg/l)	<20	<20	<20	<20	<20	<20	<20	45.5	54.9	<20	<20	<20
Oil and grease (mg/l)	<1.5	<1.5	<1.5	24	1.8	<1.5	1.8	8.8	50.6	<1.5	<1.5	2.2
TSS (mg/l)	1.2	<1.0	2.4	30.8	<1	<1	5.6	<1	10.4	12.4	2	2.8
Total residual chlorine (mg/l)	0	0	0.01	0.03	0	0.04	0.02	0.01	0.01	<0.02	<0.02	<0.02
Coliform bacteria	>240	<240	120	0	>240	>240	>240	4,800	4,800	>4,800	>4,800	4,800
SWP downstream												
pH	7.97	8.01	8.5	7.65	7.45	7.99	8.43	8.75	8.5	8.21	6.66	7.94
BOD (mg/l)	<4	<4	<4	<4	<4	<4	<4	4.8	10	<4	<4	<4
COD (mg/l)	32.7	<20	<20	<20	<20	<20	<20	22.6	39.8	<20	<20	39.8
Oil and grease (mg/l)	10	<1.5	<1.5	14	1.6	<1.5	4.8	<1.5	3.4	<1.5	<1.5	5.8
TSS (mg/l)	7.2	2	<1	43.2	<1	<1	1.6	13.6	14.8	10.4	5.2	4.8
Total residual chlorine (mg/l)	1.71	0.01	0.05	0.04	0	0.09	0.05	0	0.05	<0.02	0.01	0.03
Coliform bacteria	0	<240	4,800	0	9	>240	>240	4,800	4,800	>4,800	>4,800	4,800
OWS												
pH	7.5	No flow		7.63	8.3	8.54	8.08	7.07	6.11	7.42	6.9	8.05
Oil and grease (mg/l)	5.6			<1.5	3	1.8	12.6	<1.5	8	<1.5	<1.5	6
TSS (mg/l)	28			10	<1	11.6	4.8	39.3	16.4	34.8	5.6	6
Heavy metals. total (mg/l)	<0.59	n/a since wasn't in the programme		0	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.71	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			0			<0.02			<0.02		
Cr total (mg/l)	0.031			0			<0.03			<0.03		
Cu (mg/l)	<0.1			0			<0.1			0.136		
Pb (mg/l)	<0.1			0			<0.1			0.162		
Hg (mg/l)	<0.0002			0			<0.0002			<0.0002		
Ni (mg/l)	0.138			0			0.1			<0.1		
Zn (mg/l)	<0.2			0			<0.2			0.265		
NH4 (mg/l)	<9.5			<0.15			0.32			<0.15		
Phenols (mg/l)	<0.0016			<0.0016			<0.0016			<0.002		
Sulphur (mg/l)	1.2			<0.2			<0.2			<0.2		

PT3 Aqueous Discharges Monitoring Results

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
Ops WWTP												
pH	No discharge		8.36	No discharge					8.3	8.4	8.42	No discharge
BOD (mg/l)			12						<4	<4	<4	
COD (mg/l)			50.6						36.9	22.6	<20	
Oil and grease (mg/l)			<1.5						<1.5	<1.5	<1.5	
TSS (mg/l)			7.6						1.7	4.8	2.4	
Total residual chlorine (mg/l)			0.08						0.2	0.12	0.09	
Coliform bacteria			0						0	0	0	
Storm Water Pond (SWP)												
pH	No discharge			7.81	No discharge							
BOD (mg/l)				<4								
COD (mg/l)				<20								
Oil and grease (mg/l)				3								
TSS (mg/l)				14								
Total residual chlorine (mg/l)				0.16								
Coliform bacteria				0								
OWS												
pH	8.32	No flow		7.44	7.26	8.93	7.92	8.91	8.2	8.55	7.8	8.21
Oil and grease (mg/l)	18			<1.5	<1.5	2.6	4.4	<1.5	<1.5	<1.5	5.2	1.8
TSS (mg/l)	1.2			7.60	14.8	4	1.2	3.2	21	12	7.6	20.4
Heavy metals, total (mg/l)	<0.55	n/a since wasn't in the programme		0	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			0			<0.02			<0.02		
Cr total (mg/l)	<0.03			0			<0.03			<0.03		
Cu (mg/l)	<0.1			0			<0.1			<0.1		
Pb (mg/l)	<0.1			0			<0.1			<0.1		
Hg (mg/l)	<0.0002			0			<0.0002			<0.0002		
Ni (mg/l)	<0.1			0			<0.1			<0.1		
Zn (mg/l)	<0.2			0			<0.2			<0.2		
NH4 (mg/l)	<0.15			<0.15			<0.15			0.69		
Phenols (mg/l)	<0.0016			<0.0016			<0.0016			<0.002		
Sulphur (mg/l)	1.4			<0.2			0.4			<0.2		

PT4 Aqueous Discharges Monitoring Results

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
Ops WWTP												
pH	No discharge	7.69	7.46	7.22	No discharge	8.08	No discharge				8.1	No discharge
BOD (mg/l)		5.5	<4	8.2		<4					<4	
COD (mg/l)		<20	50.5	68.4		<20					<20	
Oil and grease (mg/l)		8.6	<1.5	6.4		3					<1.5	
TSS (mg/l)		9	20	16.8		14					5.6	
Total residual chlorine (mg/l)		0.14	0.08	0.1		0.06					0.1	
Coliform bacteria		2	2	0		170					<1.8	

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
Storm Water Pond (SWP)												
pH	No discharge										8.9	7.42
BOD (mg/l)											9	4.5
COD (mg/l)											40.8	39.8
Oil and grease (mg/l)											8.6	6.2
TSS (mg/l)											4.8	3.6
Total residual chlorine (mg/l)											0.03	0.17
Coliform bacteria											49	49
OWS												
pH	7.65	7.62	7.5	8.89	9.57	8.34	9.28	8.13	8.32	8.87	7.8	8.09
Oil and grease (mg/l)	29.4	2	<1.5	20.2	13.6	16.6	<1.5	8	44.8	9	<1.5	6.2
TSS (mg/l)	17.2	14.4	4.4	12.4	26.4	12.8	22	13.6	28.0	17.6	42.4	8
Heavy metals, total (mg/l)	<0.58	n/a since wasn't in the programme		0	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			0			<0.02			<0.02		
Cr total (mg/l)	<0.03			0			<0.03			<0.03		
Cu (mg/l)	0.127			0			<0.1			<0.1		
Pb (mg/l)	<0.1			0			<0.1			<0.1		
Hg (mg/l)	<0.0002			0			<0.0002			<0.0002		
Ni (mg/l)	<0.1			0			<0.1			<0.1		
Zn (mg/l)	<0.2			0			<0.2			<0.2		
NH4 (mg/l)	<0.15			0.0823			<0.15			<0.15		
Phenols (mg/l)	0.1015			<0.0016			<0.0016			<0.002		
Sulphur (mg/l)	1.2			<0.2			0.8			<0.2		

IPT1 Aqueous Discharges Monitoring Results

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
OWS												
pH	6.1	6.15	7.32	6.75	7.2	8.3	No flow	7.83	7.31	6.78	No flow	
Oil and grease (mg/l)	3.2	5	1.5	1.5	1.5	2.6		4.4	3.2	1.8		
TSS (mg/l)	2	4	<1	16.4	<1	<1		2	1.6	15.6		
Heavy metals, total (mg/l)	<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme			n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			<0.02						<0.02		
Cr total (mg/l)	<0.03			<0.03						<0.03		
Cu (mg/l)	<0.1			<0.1						<0.1		
Pb (mg/l)	<0.1			<0.1						<0.1		
Hg (mg/l)	<0.0002			0						<0.0002		
Ni (mg/l)	<0.1			<0.1						<0.1		
Zn (mg/l)	<0.2			<0.2						<0.2		
NH4 (mg/l)	<0.15			<0.15						0.23		
Phenols (mg/l)	<0.0016			<0.0016						<0.002		
Sulphur (mg/l)	1.6			<0.2						<0.2		

IPT2 Aqueous Discharges Monitoring Results

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
OWS												
pH	8.51	8.75	8.99	6.14	7.2	7.97	No discharge	7.5	7.22	7.8	No discharge	
Oil and grease (mg/l)	4	2.2	1.5	1.5	11.2	4.8		1.5	1.5	4.8		
TSS (mg/l)	12	4.4	4	<1	3.6	4.4		<1	8	20		
Heavy metals, total (mg/l)	<0.55	n/a since wasn't in the programme		0	n/a since wasn't in the programme			n/a since wasn't in the programme		<0.72	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			0						<0.02		
Cr total (mg/l)	<0.03			0						0.048		
Cu (mg/l)	<0.1			0						0.109		
Pb (mg/l)	<0.1			0						<0.1		
Hg (mg/l)	<0.0002			0						<0.0002		
Ni (mg/l)	<0.1			0						0.242		
Zn (mg/l)	<0.2			0						<0.2		
NH4 (mg/l)	0.2			<0.15						<0.15		
Phenols (mg/l)	<0.0016			<0.0016						<0.002		
Sulphur (mg/l)	1.4			<0.2						<0.2		

CMT Aqueous Discharges Monitoring Results

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
Ops WWTP												
pH	No discharge				7.95	8.52	7.75	7.99	No discharge	7.81	No discharge	
BOD (mg/l)					6.6	9.6	<4	<4		<4		
COD (mg/l)					<20	<20	<20	<20		<20		
Oil and grease (mg/l)					9.2	7	6.80	<1.5		<1.5		
TSS (mg/l)					10.8	<1	<1	9.2		24.4		
Total residual chlorine (mg/l)					0.16	0.2	0.2	2		0.2		
Coliform bacteria					<400	<400	<400	<400		<400		
Construction WWTP												
pH	No discharge	6.13	No discharge	7.95	7.75	8.15	7.5	7.06	No discharge	7.72	7.7	7.8
BOD (mg/l)		6.80		<4	22	7	<4	7.5		<4	4.8	<4
COD (mg/l)		<20		20.80	<21.0	<20	<20	31.2		<20	23.7	<20
Oil and grease (mg/l)		6.40		3.80	9.4	9	7.6	<1.5		<1.5	<1.5	<1.5
TSS (mg/l)		1.20		7.20	10	2.4	2.4	<1		4	28.8	3.6
Total residual chlorine (mg/l)		0.20		0.19	0.11	0.16	0.12	0.04		0.11	0.2	0.01
Coliform bacteria		<400		<400	<400	<400	<400	<400		<400	<400	<400
Storm Water Pond (SWP)												
pH	No discharge							No flow	No discharge			
BOD (mg/l)												
COD (mg/l)												
Oil and grease (mg/l)												
TSS (mg/l)												
Total residual chlorine (mg/l)												
Coliform bacteria												

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
SWP upstream												
pH	6.44	6.52	8.2	7.27	8.05	8.05	No flow					8.21
BOD (mg/l)	<4	<4	<4	<4	<4	<4						<4
COD (mg/l)	<20	<20	<20	<20	<20	<20						<20
Oil and grease (mg/l)	5.20	7.80	<1.5	6.4	<1.5	2.6						<1.5
TSS (mg/l)	1.20	<4	3.2	3.2	2	5.6						2
Total residual chlorine (mg/l)	0.04	0.08	0.17	0.04	0.04	0.13						0.03
Coliform bacteria	930	90	240	>1,100	>1,100	>1,100						>1,100
SWP downstream												
pH	6.59	6.17	8.12	7.38	8.6	8.1	No flow					7.9
BOD (mg/l)	<4	10.2	11.2	19.5	20.5	13.4						4.2
COD (mg/l)	29.70	<20	53.5	38.7	32.7	<20						31.2
Oil and grease (mg/l)	16.40	15	35	1.8	<1.5	<1.5						6.4
TSS (mg/l)	6.80	11.6	30	28.4	20.8	31.6						28
Total residual chlorine (mg/l)	1.25	0.08	0.08	0.03	0	0.01						0.04
Coliform bacteria	<400	2,900	240	<400	>1,100	>1,100						1,100
OWS 1&2 (office and housing compounds)												
pH	6.91	6.50	8.57	7.10	No flow		7.93	No discharge	No flow	No discharge		8.09
Oil and grease (mg/l)	<1.5	2	<1.5	1.80			<1					6.6
TSS (mg/l)	4.40	5.60	5.60	14.80			2					3.2
Heavy metals, total (mg/l)	<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			<0.02			<0.02			<0.02		
Cr total (mg/l)	<0.03			<0.03			<0.03			<0.03		
Cu (mg/l)	<0.1			<0.1			<0.1			<0.1		
Pb (mg/l)	<0.1			<0.1			<0.1			<0.1		
Hg (mg/l)	<0.0002			0			<0.0002			<0.0002		
Ni (mg/l)	<0.1			<0.1			0.1			0.109		
Zn (mg/l)	<0.2			<0.2			<0.2			<0.2		
NH4 (mg/l)	0.6			<0.15			<0.15			<0.15		
Phenols (mg/l)	<0.0016			<0.0016			<0.0016			<0.002		
Sulphur (mg/l)	<0.2			<0.2			0.4			0.3		
OWS 3 (process area)												
pH	6.40	No flow		7.30	No flow		7.58	No flow			8.8	No flow
Oil and grease (mg/l)	6			<1.5			2.4				<1.5	
TSS (mg/l)	4.40			2			3.6				<1.0	
Heavy metals, total (mg/l)	<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		No flow	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			<0.02			<0.02					
Cr total (mg/l)	<0.03			<0.03			<0.03					
Cu (mg/l)	<0.1			<0.1			<0.1					
Pb (mg/l)	<0.1			<0.1			<0.1					
Hg (mg/l)	<0.0002			0			<0.0002					
Ni (mg/l)	<0.1			<0.1			<0.1					
Zn (mg/l)	<0.2			<0.2			<0.2					
NH4 (mg/l)	<0.15			<0.15			<0.15					
Phenols (mg/l)	<0.0016			0.0276			<0.0016					
Sulphur (mg/l)	<0.2			<0.2			0.8					

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
OWS 4 (tank farm)												
pH	No discharge	6.10	7.64	6.90	No flow		8.55	No flow	7.75	No flow		7.6
Oil and grease (mg/l)		9.40	1.60	<1.5			2.4		<1.5			2.8
TSS (mg/l)		3.20	<1	1.20			2		2.8			1.2
Heavy metals, total (mg/l)	<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		No flow	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			<0.02			<0.02					
Cr total (mg/l)	<0.03			<0.03			<0.03					
Cu (mg/l)	<0.1			<0.1			<0.1					
Pb (mg/l)	<0.1			<0.1			<0.1					
Hg (mg/l)	<0.0002			0			<0.0002					
Ni (mg/l)	<0.1			<0.1			<0.1					
Zn (mg/l)	<0.2			<0.2			<0.2					
NH4 (mg/l)	<0.15			<0.15			0.29					
Phenols (mg/l)	<0.0016			<0.0016			<0.0016					
Sulphur (mg/l)	<0.2			<0.4			0.8					
OWS 5 (metering area)												
pH	6.57	5.80	7.11	6.66	No discharge	No flow	7.75	7.68	8.25	8.44	No flow	8.25
Oil and grease (mg/l)	4	10	2.20	2.60			2.4	3	<1.5	<1.5		3.6
TSS (mg/l)	3.20	<1	1.60	6.20			<1	<1	1.2	2		<1
Heavy metals, total (mg/l)	<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<0.58	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			<0.02			<0.02			<0.02		
Cr total (mg/l)	<0.03			<0.03			<0.03			<0.03		
Cu (mg/l)	<0.1			<0.1			<0.1			<0.1		
Pb (mg/l)	<0.1			<0.1			<0.1			<0.1		
Hg (mg/l)	<0.0002			0			<0.0002			<0.0002		
Ni (mg/l)	<0.1			<0.1			<0.1			0.134		
Zn (mg/l)	<0.2			<0.2			<0.2			<0.2		
NH4 (mg/l)	0.82			0.6			<0.15			<0.15		
Phenols (mg/l)	<0.0016			0.0215			<0.0016			<0.002		
Sulphur (mg/l)	<0.2			<0.2			0.8			0.9		
OWS 6 (jetty 1)												
pH	No discharge	No flow	7.30	7.30	No flow				7.9	8.05	No flow	
Oil and grease (mg/l)			<1.5	3					<1.5	<1.5		
TSS (mg/l)			1.20	3.60					<1	3.2		
Heavy metals, total (mg/l)	<0.55	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		No flow	n/a since wasn't in the programme		<0.9	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			<0.02						0.252		
Cr total (mg/l)	<0.03			<0.03						<0.03		
Cu (mg/l)	<0.1			<0.1						<0.1		
Pb (mg/l)	<0.1			<0.1						0.218		
Hg (mg/l)	<0.0002			0						<0.0002		
Ni (mg/l)	<0.1			<0.1						<0.1		
Zn (mg/l)	<0.2			<0.2						<0.2		
NH4 (mg/l)	0.3			<0.15						0.71		
Phenols (mg/l)	<0.0016			0.0208						<0.002		
Sulphur (mg/l)	<0.2			<0.2						<0.2		

	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08
OWS 6 (jetty 2)												
pH	No discharge	No flow	7.11	6.80	No flow		No discharge	No flow	7.66	7.45	No flow	
Oil and grease (mg/l)			4.40	2					<1.5	<1.5		
TSS (mg/l)			<1	5.20					7.6	2.8		
Heavy metals, total (mg/l)	<0.68	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme		<1.47	n/a since wasn't in the programme		<0.55	n/a since wasn't in the programme	
Cd (mg/l)	<0.02			<0.02			<0.02			<0.02		
Cr total (mg/l)	<0.03			<0.03			<0.03			<0.03		
Cu (mg/l)	0.14			<0.1			<0.1			<0.1		
Pb (mg/l)	<0.1			<0.1			<0.1			<0.1		
Hg (mg/l)	<0.0002			0			<0.0002			<0.0002		
Ni (mg/l)	<0.1			<0.1			0.146			<0.1		
Zn (mg/l)	0.294			<0.2			1.07			<0.2		
NH4 (mg/l)	2			1.3			2.67			0.27		
Phenols (mg/l)	<0.0016			0.008			<0.0016			<0.002		
Sulphur (mg/l)	0.6			<0.2			0.8			0.3		

Appendix 2.3d – Waste

Total Waste Volumes, 2008

All figures are in tonnes	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08	TOTAL
PT1&IPT2													
Hazardous waste disposed offsite	0	0	0	0	0	5.6	0	0	0	0	0	4.1	9.7
Domestic waste disposed offsite	1.8	2.5	1.7	2	1.1	1.5	2.8	1.9	1.4	2.3	3.8	0	22.8
Waste water disposed in 3rd party WWTP	20	20	10	15	30	60	37	30	30	60	30	35	377
Non-hazardous waste re-cycled	0.8	1.5	0.7	1.7	0	1.2	1.2	0.7	1	0.9	0.5	7.7	17.9
Non-hazardous waste re-used	1.5	0.5	0.5	0.8	0.7	1.3	0.8	0.7	0.6	1	1	0.6	9.99
PT2													
Hazardous waste disposed offsite	0	0	0	0	0	4.3	0	0	0	0	0	4.3	8.6
Domestic waste disposed offsite	4	3	2	5	2	1	2	1.3	1.3	1.3	2.8	0	25.7
Waste water disposed in 3rd party WWTP	40	55	655	660	90	40	10	0	10	20	5	30	1,615
Non-hazardous waste re-cycled	1.4	0	1.5	1	0.3	0.6	1	0.9	0.3	2.2	1.3	5.5	16.2
Non-hazardous waste re-used	1.7	1.6	1.8	1.3	1.6	1.1	1.2	1.5	1.3	1	1	0.8	16
PT3													
Hazardous waste disposed offsite	0	0	0	0	0	1.5	0	0	0	0	0	4.3	5.8
Domestic waste disposed offsite	1.5	1.5	1.5	1.7	0.7	1	2.9	1.2	0	1.3	2.6	0	15.9
Waste water disposed in 3rd party WWTP	10	10	10	5	20	10	20	10	10	10	10	0	125
Non-hazardous waste re-cycled	1	1.1	1.4	1.2	2.3	0.9	1.9	1.7	1.4	1.6	3.1	1.7	19.5
Non-hazardous waste re-used	0.6	0.5	0.6	0.5	1.8	0.5	2	0.6	1.6	1.3	0.6	0.7	11.5

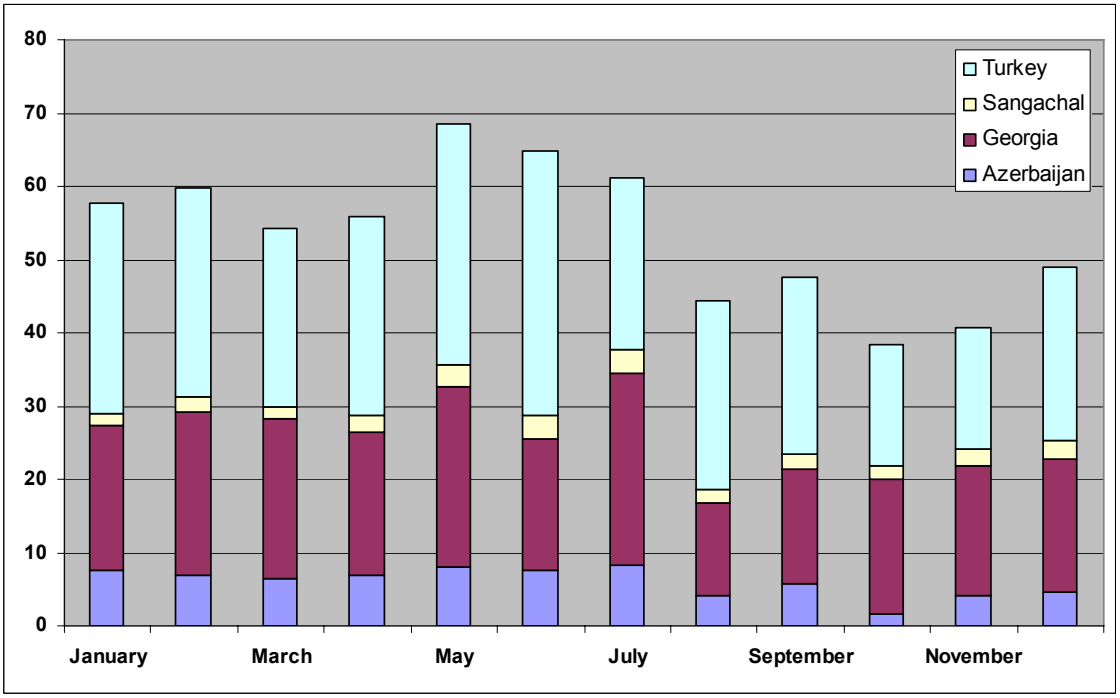
All figures are in tonnes	Jan 08	Feb 08	March 08	April 08	May 08	June 08	July 08	Aug 08	Sep 08	Oct 08	Nov 08	Dec 08	TOTAL
PT4													
Hazardous waste disposed offsite	0	0	0	0	0	3.4	0	0	0	0	0	5.3	8.7
Domestic waste disposed offsite	0.7	0.5	1.2	1.4	1.2	1.2	3	1	1.2	0.7	1.2	0.7	14.4
Waste water disposed in 3rd party WWTP	15	0	45	15	15	45	30	30	0	45	30	15	285
Non-hazardous waste re-cycled	1.2	1.7	0	3.7	0	1.2	0	1.2	0	1.5	1.3	2.4	14.3
Non-hazardous waste re-used	0.7	0.7	1	1	1	0.6	0.8	0.6	0.5	0.6	0.7	0.5	8.6
IPT1													
Hazardous waste disposed offsite	0	0	0	0	0	0.7	0	0	0	0	0	2.1	2.8
Domestic waste disposed offsite	1.5	0.6	0.5	0.6	0.5	1.1	0.9	1.6	0.6	1.3	12	1.6	12.1
Waste water disposed in 3rd party WWTP	518	364	672	532	476	392	406	420	350	350	322	294	5,096
Non-hazardous waste re-cycled	0.4	0	1.4	0.4	0	0.9	0.3	0.1	0.4	0.4	0	0.3	4.5
Non-hazardous waste re-used	1.1	0.8	0.7	0.9	1.1	1.9	2.3	1.8	2.2	2.2	2.5	2.3	19.9
CMT													
Hazardous waste disposed offsite	0	0	0	0	2.1	0	0	0	0	0	0	3.4	5.5
Domestic waste disposed offsite	4.7	5.6	11.4	5.8	5.4	11.8	5.4	8.2	6.8	7.6	7.2	6.5	86.3
Waste water disposed in 3rd party WWTP	0	10	10	10	10	0	10	20	10	10	10	10	110
Non-hazardous waste re-cycled	1.4	1.4	1.5	1.7	1.2	3	1.6	0.4	1	1.2	0.9	1.7	16.9
Non-hazardous waste re-used	1,179	13.5	10.3	21.1	14.3	11.1	9.1	12.7	9.9	9	14.5	13.3	1,318
ROW													
Crude Oil injected into P/L	0.5	0	0	0	0	0	0	852	0	0	0	0	852.5

TOTAL 2008 ***(in tonnes)***	
Hazardous waste disposed offsite	**41,1**
Domestic waste disposed offsite	**177.3**
Waste water disposed in 3rd party WWTP	**7,608**
Non-hazardous waste re-cycled	**89.5**
Non-hazardous waste re-used (solid & liquid)	**2,237**
Incineration % for solid waste disposed offsite	**2**
Landfill % for solid waste disposed offsite	**10**
Re-cycle % for solid waste disposed offsite	**5**
Re-use % for solid waste disposed offsite	**82**

APPENDIX 2.4: GHG EMISSIONS

GHG Emissions in 2008 (in kilotonnes)

GHG	Sangachal	Azerbaijan	Georgia	Turkey	TOTAL
January	1.66	7.69	19.66	28.76	**57.77**
February	2.00	6.91	22.24	28.53	**59.68**
March	1.78	6.44	21.75	24.36	**54.33**
April	2.30	6.85	19.65	27.07	**55.87**
May	3.00	8.14	24.59	32.72	**68.45**
June	3.17	7.62	17.86	36.18	**64.83**
July	3.01	8.39	26.2	23.57	**61.17**
August	2.00	4.1	12.6	25.75	**44.45**
September	2.02	5.72	15.66	24.27	**47.67**
October	1.97	1.69	18.28	16.39	**38.33**
November	2.41	4.17	17.57	16.43	**40.58**
December	2.66	4.7	18.01	23.69	**49.06**



APPENDIX 3: CLOSE OUT STATUS OF ACTIONS RELATED TO NON-COMPLIANCES RAISED THROUGH IEC MONITORING

Appendix 3 contains BTC Co.'s response and progress towards implementing and effectively closing out the non-compliances raised by IEC. Items that remain open are reported in the BTC E&S Reports until they have been closed. Items that have been closed do not appear in subsequent reports. In adopting this approach, the Project aims to provide the transparency and assurance that measures are being taken to ensure follow-up and close out of all actions to address the non-compliances.

APPENDIX 3A – AZERBAIJAN ACTION STATUS AGAINST AUDIT NON-COMPLIANCES AND RECOMMENDATIONS

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
2.3.2	August 2008	Infra-structure and Services	Ongoing use of the Mingechevir (and previously the Sahil) non-compliant facilities for the disposal of sewage.	II	1. BTC should review their past activities at Mingechevir and plan for new assistance that improves the performance of this facility – consider significant support, such as supplying and installing a new pump and associated piping, developing a system for effective chlorination of the effluent, etc. 2. Expedite completion of the new RBC plants.	Use of Mingechevir Wastewater Treatment Facility was stopped on 20th June 2008. RBC unit at PSA2 was commissioned in June 2008. Effluent from RBC unit is also being goes through the reed beds effluent polishing system. RBC units at PSA2 Camp and IPA1 have already been installed and will be commissioned in March 2009.	CLOSED
2.4.1	August 2008	Monitoring	Stack emissions for NOx and CO noncompliant with ESAP	I	Increase the frequency of emissions testing and relocate the sampling ports for the diesel generators. The ESAP indicates that thresholds for corrective action are exceedances of emission limit values, as well as "incomplete or late collection or reporting". Substantial information is still missing to determine what corrective actions might be required, if any. Continue to evaluate the reasons for non-compliant emissions from the MOL turbines and consider actions that could improve their performance.	Monitoring was carried out at all three of the PSA2 generators and at both of the IPA1 generators in May 2008 and all PSA2 turbines (Oct 2007 and May 2008). All of the stacks were sampled for NO_x, CO, NO_2, and PM_{10}. This successfully concludes all of the stack emissions monitoring required by the ESAP within one year of full start-up. All of the generators at PSA2 and IPA1 were found to be in full compliance with all parameters. Emissions from PSA2 turbines indicated elevated levels of NO_x compared to ESAP standard and CO (no ESAP standard specified). It is believed that this was due to the fact that at the time of sampling the turbines were operating at below their design load. Further data will be gathered at the next monitoring event, scheduled for 2009, which will further our understanding of this issue. It is planned to conduct this monitoring during full loading of the turbines.	Ongoing

APPENDIX 3B – GEORGIA ACTION STATUS AGAINST AUDIT NON-COMPLIANCES AND RECOMMENDATIONS

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
3.4.1	June 2008	Emis-sions Manage-ment	Stack emissions for NOx non-compliant with ESAP commitments	I	The difficulties with the stack emissions monitoring to a large degree are associated with the commitments of management, rather than the environmental staff, as physical modifications to allow for these tests do not appear to have been a priority.	To be agreed with Exports PU E&S Manager and Engineering department.	OPEN

APPENDIX 3C – TURKEY ACTION STATUS AGAINST AUDIT NON-COMPLIANCES AND RECOMMENDATIONS

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.2.1	June 2008	E&S Management Organization and Resources	Failure to implement an adequate PCR program during the Operations Phase	I	Ensure that the Project, and in particular BIL address concerns about lack of full-time presence of PCR personnel in the field. Back to back coverage of PCR personnel should be provided.	BIL employed 4 new Public and Community Relations Experts (PCREs) from construction phase. In total 12 people are employed for the PCR team of BIL. The PCREs were provided with vehicles, computers and mobile phones at each pump station. The PCR team is in a sufficient shape to manage social issues now.	CLOSED
4.2.2	June 2008	E&S Management Organization and Resources	The BIL E&S team is fully operational but is limited by a number of key vacancies.	Rec.	BIL should resolve personnel shortages in a timely manner to staff the BIL HSE and PCR organizations at a level representative of their functional organization and ISO Commitments.	BIL have recruited 2 environmental engineers for CMT and 4 HSE engineers for PTs. See above comment for BIL PCR Team.	OPEN
4.2.2	June 2008	E&S Management Organization and Resources	Although BTC has mobilized additional Health and Safety (HS) advisors into BIL, IEC has concerns about HS staffing, capacity and capability given Project cutbacks.	Rec.	BTC and BIL should work together to ensure that adequate resources are available such that sufficient safety oversight, supervision and training be provided for both fixed facility and pipeline operations.	BIL HSE management system is in place. The existing workforce has been trained on HSE items in line with training matrix. The workforce has gained sufficient safety oversight through Incident Injury Free Programme which was implemented under the support of consultant company. Vacant HSE engineers were also recruited for pump stations late 2008.	CLOSED

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.2.2	June 2008	E&S Management Organization and Resources	IEC recommends that BIL consider establishing a CSR department embodying CR, governance, HR and other functions and moving from a reactive response to PCR issues to a proactive response.	Rec.		BIL has started taking some steps towards CSR such as training their staff about the concept, linking PCREs with HR and local procurement processes but still too far to reach to that point. However they now have a much more competent social team who can be more proactive on various issues.	OPEN
4.3.2	June 2008	Environmental Aspects and Impacts Register	IEC noted a significant improvement in the management of environmental data associated with BIL operations. However, the file provided to IEC as part of the June 2008 visit was not up to date for a number of parameters, and a number of data sets in recent months were missing.	Rec.	It is recommended that reporting measures are improved and that environmental data entry into the BIMS are regularly entered to ensure that monitoring data is recorded on a current and consistent basis.	New team members joined to BIL E team and one of the 2009 targets is for BTC Co. to deliver environmental operation capacity building programme for BIL. BTC Co. has started to support BIL's new environmental team members to improve the efficiency of the data entry schemes.	OPEN
4.4.2	June 2008	Construction Camps	One year after IEC raised concerns in June 2007 about camp due diligence and reinstatement, the final status of construction camps across the Project remains unknown. Only due diligence checklists were provided to IEC for Hanak and Kars Camps. At the time of the June 2008 visit, IEC was informed by BTC that the Lot B reports were going to be available soon; similarly, the Lot C report is under BTC Co. review and is not likely to be finalized before September 2008.	Rec.	IEC recommends that BTC conclude this issue as soon as possible, and provide proper due diligence reports to ensure that all identified liability issues have been adequately closed out.	All closure reports were submitted by Botaş PD to BTC Co. Some data gaps exist in the reports. Significance of the gaps is under evaluation.	OPEN

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.4.2	June 2008	Construction Camps	An MOC regarding the ongoing operation of construction camps at fixed facilities, until at least 2011, has been approved, and IEC notes that BTC has committed additional funds for camp upgrades.	Rec.	As noted in June 2007, IEC reiterates that this should consider the following: • plans and procedures for compliance to project standards with respect to operation of camp potable water supplies and WWTPs (CMT currently only in operation). CWAAs are being addressed as part of project enhancements; • control of erosion and implementation of reinstatement plans for construction camps at pump stations and the CMT as part of the MOC for continued use; and • establishment of formal decommissioning plans, including a final date and a due diligence procedure for site closure.	A camp site maintenance programme has been initiated. The camps will be used in line with the schedule given in the MOC.	OPEN
4.4.2	June 2008	Construction Camps	Although, Kars Camp has been transferred from the Project to the governorship of Ardahan and that there may have been non-Project use after conclusion of BTC usage, IEC remains concerned about the discrepancies regarding damage, soil pollution, waste water, chemical waste, and trash.	Rec.	IEC requests further clarification and due diligence assessment beyond the checklist provided.	See above comment regarding construction camps	OPEN
4.4.3	June 2008	Aggregate and Excess Material Management	Monitoring of reinstatement success should continue at the PT3 dumpsites, in particular DS1, taking into consideration that the sites are located in or next to an environmentally sensitive area (ESA 19), as designated in the Environmental Impact Assessment.	Rec.	As noted in June 2007, the Project should confirm the final status of the access road to DS1, which should be reinstated, unless evident need is expressed by the local community.	This item was added to the 2009 field observation programme	OPEN

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.5.4	June 2008	Non-Hazardous and Hazardous Waste	The CMT permanent CWAA is an impressive facility with state-of-the-art waste handling and disposal equipment. IEC is concerned that the facility is not yet operational despite being fully completed in March 2008.	Rec.	IEC recommends that permitting issues regarding its operation are rectified as soon as possible and that the facility be made fully operational.	The CWAA is not operational yet; BIL has some punch list items which need to be completed by BTC Co. BIL is awaited to submit the list of items.	OPEN
4.5.4	June 2008	Non-Hazardous and Hazardous Waste	Operating standards at construction camp CWAA's are being maintained in accordance with Project standards, but many sites are beginning to show their age and the fact that they were not intended to be used on a long term basis. IEC notes that with the exception of the CMT (although not operational), construction of permanent CWAA and chemical storage sites is still not in place. IEC also notes that construction of permanent CWAAs is not included in the 2008/2009 enhancement list, while chemical storage facilities are. BTC informed IEC that there is no immediate or short term risk from the continued use of the temporary CWAAs.	Rec.	IEC notes the continued good operations of temporary CWAAs across the Project but recommends that BTC consider including permanent CWAA's as part of the 2009/2010 enhancement list.	Waste collection system improvements at PTs and IPT1 is an approved enhancement item for 2009/2010.	OPEN

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.5.4	June 2008	Non-Hazardous and Hazardous Waste	Removal of the Protegol contaminated soil was completed in May 2007, but no mention of the work was made during the June 2007 IEC visit. Despite requests by IEC for additional information on the remedial works, the initial draft of the CINAR report was completed in June 2007 and not released until April 2008. IEC has received sufficient information from Botaş concerning the closeout of the Protegol spill at Kars Camp and confirmed visually that material was disposed at a nearby location during the June 2008 visit.	Rec.	In order to fully close this issue, IEC requests BTC to provide the following, as requested in Oct 2007: • documentation, or manifests, confirming removal and transport of material from the Kars Camp to the final disposal location; • a response to provide evidence that there are no other potential burial or spill sites at Kars Camp that could be additional contaminant sources; and • BTC Co.'s assurance review of the remedial works and landfill project.	The final report was submitted by Botaş PD to BTC Co. The report was also shared with IEC. The report was deemed to provide sufficient assurance information.	CLOSED
4.5.7	June 2008	Wastewater Management	IEC notes that Project WWTP discharges are consistently non-compliant and that BTC has recently undertaken a project-wide review of WWTP performance. Although sewage discharges are being transported to approved municipal WWTPs for disposal, hauling and fuel costs are significant to the project.	Rec.	IEC recommends that BTC provide a plan, based on the recent WWTP performance review, as to how WWTP compliance with ESAP standards will be achieved on a timely and ongoing basis.	Enhancement items were defined following a second review in 2008.	OPEN
4.5.7	June 2008	Wastewater Management	BTC should undertake a project-wide analysis of OWS performance, including a review of technological options to allow for conformance to World Bank (10 mg/L) and Turkish regulations.	Rec.		In 2008 a review of current performance and operation of OWSs was conducted at all facilities to determine their efficiency, any design and operational change/modification to best ensure compliance with project legal discharge standards. The above mentioned waste water treatment systems enhancement package will include the OWSs.	OPEN

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.6.2	June 2008	Pollution Prevention and Environmental Monitoring	Although the results of stack emission monitoring are compliant with the Operations ESAP EEMP and no adverse environmental impact is expected, BTC and BIL should clarify the legal issue relating to some stack heights. From what was discussed during the 2008 field visit, the concern of the Ministry of Environment and Forests is more related to potential pollution within plant boundaries (occupational safety issue) rather than to a potential public issue. This can likely be solved through a proper ambient air monitoring campaign within the facilities boundaries. Negotiations are currently ongoing between the project and the Ministry, operations will continue, the legal requirements regarding the issue will be clarified, agreed and a permit extension application will be made. IEC does not view this as a compliance issue relevant to the ESAP, as long as compliance to project standards is maintained.	Rec.		The stack emission monitoring results of 2008 were compliant with project standards. A joint study with regard to stack extension issue was done with BIL, Dokay and SRK (BTC Co. contractor). 4 stacks were defined as needing extensions in order to receive the air emission permits. BIL will process the MOC and the implementation in 2009. No ambient air monitoring query from MoEF was received.	OPEN
4.6.2	June 2008	Pollution Prevention and Environmental Monitoring	While it is recognized that no benzene exceedances in ambient air measurements at the CMT have been detected in 2007 and the first quarter of 2008.	Rec.	IEC recommends continuing proper maintenance and leak tests for tanks at the CMT, particularly in relation to the planned BTCX 1.2 Expansion Project.		

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.6.2	June 2008	Pollution Prevention and Environmental Monitoring	While ground and surface water is routinely monitored by the State Hydraulic Works (DSI) and data are revised and used by BIL to understand trends in surface and ground water quality, the groundwater monitoring plan implemented by the Project across all PT's and the CMT is still not consistent, particularly in relation to groundwater quality. Section 5.3.6 of the EEMP ESAP addresses this concern in that "if existing wells of DSI are not within the vicinity of PT's or CMT, BIL will consider installing additional monitoring as appropriate".	Rec.	Although no evidence of groundwater contamination is apparent, groundwater quality monitoring should be considered as soon as practical to address project risk/liability issues and contamination from off-site sources.	BIL is integrating the groundwater monitoring programme to the scope of environmental monitoring contract.	OPEN
4.7.2	June 2008	BTCX 1.2	IEC received a MSDS for DRA which will be used, under the trade name of LP™ Arctic Grade Flow Improver (Conoco Phillips). IEC noted that this chemical is irritating to eyes and skin and recommends that BIL widely circulate the MSDS to areas where DRA will be employed and provide adequate PPE (nitrile gloves and eye protection) as required.	Rec.		The MSDSs of DRA were distributed to all facilities.	CLOSED
4.8.2	June 2008	Erosion Control, Reinstatement and Biorestoration	IEC notes that significant progress has been made by BIL to address outstanding ROW maintenance issues addressed in previous visits. In particular, IEC observes a significant level of coordination between BIL maintenance and reinstatement efforts and the satellite based biorestoration monitoring work being undertaken by BTC.	Rec.	IEC recommends that BIL and BTC coordinate a unified response to reinstatement priorities, particularly in response to the 91 critical areas identified by BTC satellite data.	All 91 sites were visited by BIL and a report was issued. The unified approach will continue.	CLOSED

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.8.2	June 2008	Erosion Control, Reinstatement and Biorestoration	IEC notes the efforts of Botaş and BTC to close all outstanding ROW reinstatement issues post construction that do not fall under the responsibility of BIL.	Rec.	A dedicated reinstatement contractor has been hired for this purpose and IEC recommends that BTC coordinate these activities with the routine ROW maintenance and reinstatement efforts of BIL.	The ROW and off-ROW items under the scope of reinstatement contract were closed in 2008. BIL and BTC Co. jointly carried out a compliant based reinstatement legacy review in 2008 and developed a 2009 ROW and off-ROW Construction Legacy Remediation Programme to close the items identified in the 2008 review. Construction legacy items are managed by BTC and monitored by BIL. PCR aspects are also being managed by BIL. BTC Co. considers that a coordinated BIL/BTC Co. system is established.	CLOSED
4.8.2	June 2008	Erosion Control, Reinstatement and Biorestoration	Based on review of the documents provided by the project, IEC has closed all issues regarding reinstatement of the NGPL. In previous missions, IEC has recommended that Botaş, in conjunction with BTC, implement a systematic assessment of topsoil fertility, particularly focused on problematic high elevation areas with fragile and thin topsoil in Lot B.	Rec.	IEC continues to recommend that BIL to address topsoil fertility as well as all other factors as part of their erosion and vegetation cover monitoring, reporting and maintenance actions in high elevation locations of Lot B.	Topsoil fertility corrective actions are being considered as part of the remediation programme	OPEN
4.8.2	June 2008	Erosion Control, Reinstatement and Biorestoration	In June 2007, IEC noted that in several locations (e.g. KP 983), animal feeding and use of the ROW had impacted biorestoration efforts. The CCP Reinstatement Turkey discusses this concern and Commitment ID: APC2E12 2 states "…Where necessary, contractor will provide appropriate fencing to prevent access by grazing animals and vehicles. Fences will be fitted with signs in Turkish indicating the purpose, i.e., the enclosure is a BTC biorestoration project area and fencing is required for protection."	Rec.	BIL should consider the need for more diverse and effective temporary control measures in ecologically sensitive areas where animals could affect the future success of biorestoration, as required through ongoing monitoring and patrol of the pipeline ROW.	A capacity building programme to assist BIL in diversifying the erosion control techniques was developed; and will be implemented in 2009.	OPEN

Ref. No.	Date of finding	Category	Description of Finding	Level of Non-Compliance	Recommendation for Improvement	Action Taken	Closure Status
4.8.2	June 2008	Erosion Control, Reinstatement and Biorestoration	IEC requests that BTC explain their intent towards implementation of landscaping and temporary erosion control for those construction camps that will continue to be used during Operations, or transferred to other contractors. In particular clarification of the response to the Level 1 non-compliance is requested as identified in the 2007 E&S Annual Report that management of all reinstatement work at the camps will form part of normal operations activity.	Rec.		Landscaping activities carried out at Operations sites of all facilities. A limited landscaping programme was implemented at PT3 camp site in 2008. No landscaping planned for construction camps	CLOSED
4.8.4	June 2008	Access Roads	IEC recognizes the efforts of BTC to deal with the access road and notes progress is being made to concluding this issue.	Rec.	IEC recommends that a report be developed in conjunction with the reinstatement contractor to document closure and reinstatement of access roads in relation to the final punch-list access road register, particularly at high elevation locations. IEC will review the status of the open non-compliance regarding access roads during the next site visit in 2009.	All outstanding items were managed under the 2008 remediation programme. A specific assurance site visit programme will be implemented in 2009 for the access roads.	OPEN
4.8.4	June 2008	Access Roads	IEC also recommends that BIL and BTC coordinate a procedure as to how access roads will be used during the operations phase in the form of an Operational Access Road Strategy and Plan.	Rec.	The plan should consider the following: • existing access roads used during Construction and no longer during Operations; • existing access roads used during Operations; • closed or reinstated access roads reopened during Operations (if any); and • new access roads opened during Operations	BIL has initiated to develop an inventory of the existing access road network.	OPEN

APPENDIX 4: STATUS OF RECOMMENDATIONS RAISED THROUGH SRAP MONITORING

Appendix 4 contains the following for Azerbaijan, Georgia and Turkey:

Status of key recommendations raised during previous SRAP visits that were open at the time of the 2008 annual report (see Table A4.1);

All new recommendations raised by SRAP in their visit in April 2008 monitoring visit (see Table A4.2).

The tables provide a transparent mechanism to demonstrate follow-up and close out of all actions to address the recommendations. The table shows that all SRAP recommendations have been closed and countries reported readiness for SRAP completion audit. The SRAP completion audit has started in all 3 countries during the 2008-Q4. In accordance with the audit scope, each country has selected the contractor to do the quantitative survey. Once the quantitative survey is complete, SRAP panel would do qualitative survey. Based on the results of both quantitative and qualitative surveys lenders would provide the final report. The report would outline the Project performance against social commitments.

Full reports from the SRAP audits are available on www.bp.com/caspian.

Table A4.1: Tracking of Recommendations from Previous Reviews

No	Date	Recommendation	Status as of end December 2008
1	June 2007	BTC Co. to update impact tables of the three respective RAPs to reflect final actual impacts on land and population resulting from project construction, using a format similar to that below in each of the three countries (Carried over from previous review).	Azerbaijan – Completed Georgia – Completed Turkey – Completed
2	June 2007	BTC Co. to update tabulations of project affected landowners and users experiencing permanent loss of land and for each affected owner/user, to define the extent of those losses relative to his or her total landholding.	Ongoing
3	June 2007	SRAP Panel to provide a cross country framework for livelihood restoration surveys to assure a level of consistency in approach.	Ongoing
4	June 2007	BTC Co. to undertake a survey of households affected by permanent loss of land in 2008 to verify whether or not each household has been able to restore its income. In the case of Georgia, a strategy should at least be in place by 2008 for doing this.	To be done
5	June 2007	BTC Co. to consider additional livelihood restoration measures for permanent land losers if the survey above establishes that livelihoods are not adequately restored.	To be done
6	June 2007	In all three countries, BTC Co. to develop action plans to address/manage situations in which the landowner refuses to sign the land hand-back agreements.	Ongoing
7	June 2007	In all three countries, BTC Co. to develop a management plan that will ensure that land acquisition in Operations phase is also carried out following World Bank Group OD 4.30 principles.	Ongoing

No	Date	Recommendation	Status as of end December 2008
8	June 2007	Country livelihood restoration assessments to pay particular attention to the situation of vulnerable and marginalized groups. (Carried over from previous review).	Azerbaijan – Completed Georgia – Completed Turkey – Completed
9	June 2007	BTC Co. to identify areas where continued support is needed (health insurance scheme in Azerbaijan for example), and to make provisions in the Operations CIP for such support. (Carried over from previous review).	Azerbaijan – Completed Georgia – Completed Turkey – Completed
10	June 2007	Regular checks to be made on CIP I infrastructure to ensure that they are being properly managed and maintained.	Ongoing
11	June 2007	BTC Co. to undertake a pragmatic social risk assessment for the Operations phase, and to design within the Operations CIP, proactive measures to address identified risks, particularly – but not only – in communities located near permanent installations such as pumping stations and terminals (Carried over from previous review)	Ongoing In Turkey each project has a special strategy for AGI affected villages
12	June 2007	BTC Co. /BP to provide training to security force patrol staff in Georgia and Azerbaijan on conduct along the pipeline as well as general human rights issues.	Ongoing
13	September 2006	BTC to make stakeholders aware of avenues available to lodge complaints during Operations (Carried over from previous review).	Azerbaijan – Ongoing Georgia – Completed Turkey – Completed
14	September 2006	BTC, BP to explore avenues for more widely disseminating experience of the CIP.	Azerbaijan –Completed Georgia – Completed Turkey – Completed
15	September 2006	BP and BIL to ensure that Operations Phase staff has the right training and skills to carry out village level interactions. (Carried over from previous review).	Turkey – Completed
16	March 2006	In Georgia, BTC to identify landowners in the vicinity of Above-Ground Installations that may have been affected by more significant and permanent land impacts, and to monitor all of them for livelihood restoration. (Carried over from previous review).	Georgia – Completed
17	September 2005	Annual replicate income-expenditure surveys to be superseded by a one-off income-expenditure survey to be designed and overseen by the SRAP Panel, and conducted as part of the resettlement completion audit. (Carried over from previous review).	Ongoing (Action on SRAP)
18	September 2005	All countries to pay particular attention to monitoring livelihood status of households affected by permanent loss of land. Annual income-expenditure surveys recommended.	Azerbaijan – Completed Georgia – Ongoing Turkey – Completed
19	September 2005	To avoid ad hoc or piecemeal development assistance, BP Business Unit to look at designing the CIP strategy within a broader framework such as national poverty strategies (to the extent that these provide clear direction), or within a context of district or sub-district development plans.	Turkey – Completed
20	September 2005	BTC to give consideration to adopting a labour standard based on an internationally recognized code or standard, to be applicable to all supply chain contracts with regular monitoring of compliance. (carried over from previous review).	Ongoing

No	Date	Recommendation	Status as of end December 2008
21	September 2005	BTC to adopt a systematic approach and develop guidelines and capacity to monitor, audit and otherwise address supply chain labour and employment standards.	Azerbaijan – Completed Georgia – Completed Turkey – Completed
22	March 2005	BTC to look at avenues to incorporate small scale procurement and supply opportunities (e.g. incentives or quotas fostering village level content, re-bundling of procurement contracts) for villages in Georgia and Azerbaijan as part of its Operations Phase procurement strategy.	Ongoing
23	February 2004	BTC to continue to reinforce its anti-corruption stance with all levels of government.	Ongoing
24	February 2004	BTC to explore opportunities for construction phase CIP small enterprise development initiatives to facilitate villager involvement in bidding for operations phase local procurement tenders.	Azerbaijan – Completed Georgia – Completed Turkey – Completed

Table A4.2: April 2008 SRAP Panel Recommendations

Key recommendations arising from the April 2008 review of the BTC project in Azerbaijan, Georgia and Turkey are tabulated below. Recommendations are prioritised as follows:

High	Actions that are critical to ensure compliance with commitments contained in the RAP, ESAP or World Bank OD 4.30
Medium	Actions desirable to comply with social or resettlement good practice or to address actual or potential areas of social risk
Low	Important actions that are less time critical

AZERBAIJAN

Issue	Project Principles	Performance	Recommendations	By	Priority
LAND ACQUISITION					
Outstanding compensation	Compensation must be paid prior to occupation of land	85 landowners /landusers could not be paid because they are either absent or heirs cannot be identified.	a. BP to ensure immediate availability of the compensation budget required to effect outstanding SLAP compensation - *Completed. The budget has been transferred to Operations stage.*	BP	High
Access strategy	While driving on the Right-of-Way was to be prohibited per ESAP principles, a "Management of Change" has made it possible to occupy a 6 metre strip within the ROW, which is dedicated to driving by EPPD. Compensation has been paid in view of ending temporary occupation of this strip by 31st December 2008	Alternatives to driving are being investigated, but it is possible that this investigation will not be complete by the time that the 6 metre strip has to be reinstated and handed back	b. If compensation is to be paid for an extended occupation of the 6 meter wide strip beyond the current lease end date of 31st December, 2008, BP to make sure that the occupation period covered by the compensation is consistent with agricultural cycles - *Completed. The compensation was paid to cover agricultural cycle* c. BP to make sure that further extensions beyond 31st December 2008 of the 6 meter wide strip temporary occupation are avoided, either through an agreeable alternative to EPPD driving, or, if no such alternative can be identified and agreed upon, through permanent acquisition and associated compensation of this strip - *Completed. BP decided not to extend the agreement beyond December 2008*	BP	High

Issue	Project Principles	Performance	Recommendations	By	Priority
Orphan land	Landowners affected by orphan land have been identified and their piece of severed land has been permanently acquired by BP	It appears that certain transaction costs were not covered by BP, particularly the cost of re-registering the remaining piece of land with the relevant cadastre authorities	d. BP to compensate landowners interested by orphan land transactions against the cost of registering the remaining piece of their land - *Ongoing. CLEE (3d party independent legal NGO) assists BP in that process*	BP	High
Crossings across the Right-of-Way	A procedure is in place for neighbours and landowners to request a crossing authorisation from BP	Response by BP to crossing requests is slow	e. BP to expedite response to crossing requests - *Completed*	BP	Medium
Extortion / Corruption	Compensation is due in full to Project-Affected People, without any deduction	Extortion cases in Chobanabdaly and Gilinjbeyli have been investigated by BP and CLEE. Although these incidents remain somewhat unclear, it appears that further investigation is unlikely to bring clarity for now	f. BP to suspend investigation of the Gilinjbeyli and Chobanabdaly corruption/extortion incidents, while remaining alert of any potential reappearance of the previous complaints if the local situation changes - *Completed*	BP	Medium
COMMUNITY LIAISON / GRIEVANCE MANAGEMENT					
Outstanding grievances	Grievances must be timely processed and resolved	One particular grievance related to lost crops in relation with interruption of irrigation during construction remains outstanding. The landowner is apparently fully entitled to compensation for his lost crop	g. BP to pay compensation for his lost crop to the complaining landowner of the village of Gulabend - *Completed*	BP	High
SECURITY					
Pipeline patrolling by State security organs	Restrictions in the Right-of-Way and in the vicinity thereof are well defined by a Government of Azerbaijan decree	In some instances in Kurdamir, villagers complain that security forces EPPD impose more restrictions than provided by the Governmental decree	h. BP to identify the origin of the problems occurring in Kurdamir district between EPPD officers and farmers and to take action accordingly - *Completed*	BP	High

GEORGIA

Issue	Project Principles	Performance	Recommendation	By	Priority
LAND					
Regularizing land tenure	"Plans should contain provisions for… …regularizing land tenure in the earliest stages" WB OD 4.30	Private ownership of land has been suspended in Tabatskuri. While the project has secured rights over the pipeline corridor, private ownership of land has not been normalized. BTC/BP was not responsible for the suspension of private landownership, but BTC compensation brought internal village conflicts to a head resulting in the court actions that lead to the suspension.	a. BTC/BP to support APLR's offer to act as an intermediary towards achieving normalization of private landownership in Tabatskuri - *Completed. BTC takes all appropriate measures to comply with RAP requirements.*	BTC/BP	Medium
Delays in land exit/ formalizing permanent use of land	Use of land to be restored to former owners upon construction completion.	Delays in making engineering decisions have delayed the return of land or BTC Co.'s permanent acquisition of land in several localities. This has given rise to high degree of frustration in some communities.	b. BTC/BP to (i) expedite engineering decisions about siting of remaining access roads and engineering works; (ii) provide firm commitments to landowners about when land will be acquired; and, (iii) pay any outstanding compensation to cover the period up until the end of growing season 2008. - *Completed*	BTC/BP	High
		There are a large proportion (>20%) of absentee owners in Georgia, making it difficult to execute land use hand-back agreements.	c. BTC/BP to establish a register of absentee owners to include (i) documentary evidence of the efforts that have been made to establish the whereabouts and make contact with each absentee; and, (ii) to define the compensation payable to them upon their signing of land use and servitude agreements - *Completed BTC identified absentee owner's addresses in Greece and Russia and sent letters with offers and explained steps how to get compensation*	BTC/BP	High
			d. BP to block funds to cover absentee payments into an interest-bearing Georgian bank account to be held in trust until such time as claimants come forward for agreement signing. *Completed. BTC Land Budget is approved upon 2010 so it is not necessary to have special account in Bank.*	BTC/BP	High

Issue	Project Principles	Performance	Recommendation	By	Priority
LIVELIHOOD RESTORATION					
Soil reinstatement / crop yield impairment	Livelihoods of project affected people to be enhanced, or at least restored.	Many farmers are yet to resume use of land. Once this occurs, some complaints about soil reinstatement/ impaired crop yields are likely. Some complaints have already been received.	e. BTC/BP to develop a robust protocol for addressing complaints about soil reinstatement or impaired crop yield that involves an independent, third party expert in the event of dispute. - *Completed*	BTC/BP	High
Restrictions of use over pipeline corridor	Project affected people to be able to resume use of pipeline corridor land following construction, subject to some restrictions.	BTC/BP and SPPD command have introduced measures to improve SPPD patrol understanding of restrictions of use.	f. SRAP Panel to re-assess effectiveness of measures to improve SPPD understanding of pipeline land use restrictions during its autumn review. - *SRAP action*	BTC/BP	High
Transfer of pipeline corridor use rights to third parties	BTC/BP allows agricultural use of the corridor subject to restrictions.	Some registered pipeline corridor users have been informally transferring use rights to third parties. BTC/BP has no formal agreement on restrictions with the new users.	g. BTC/BP to publicize to local administrations and pipeline corridor users procedures to be followed in the event a registered user wishes to transfer his use right to another party. -*Completed. In case of having proxy - fully comply with hand back requirements. And if not having proxy - than provide the PROTOCOL signed by BTC, user, verified by local authorities to allow use of land with restrictions. Protocol signed with 22 landowners in Tsalka.*	BTC/BP	High
EMPLOYMENT AND TRAINING					
Employment and Training Management Plan	The Project is responsible for managing training and employment in accordance with Employment and Training Management Plan (ETMP).	ETMP implementation responsibility has been with the Social Team. With cessation of construction, it may make more sense for the ETMP to be transferred to the Human Relations Department which has requisite skills & knowledge of labour & employment laws & regulations.	h. Consider transferring responsibility for implementation of the Employment and Training Management Plan from the Social Team to the Human Relations Department. - *Ongoing*	BTC/BP	Medium

Issue	Project Principles	Performance	Recommendation	By	Priority
PUBLIC CONSULTATION AND INFORMATION DISCLOSURE					
Information dissemination	Communities to be regularly consulted and kept fully informed about BTC activities.	Some rumours and misinformation about the BTC capacity increase are circulating in villages along the pipeline route.	i. BP to develop a plan for progressive roll-out to communities of the information about the BTC pipeline capacity increase. The roll-out needs to be commenced immediately. - *Completed*. Information roll-out on BTC capacity increase project has been done. Meetings between Contractor and communities took place, leaflets on project updates distributed to the applicable settlements.	BTC/BP	High
COMMUNITY INVESTMENT PROGRAM					
CIP II implementation	Sustainable community benefits to be delivered through targeted community investment.	CIP II is delivering many innovative & ambitious programs. Given relative complexity of CIP II, mid-term evaluation is critical.	j. BTC/BP to commission a mid-term evaluation of CIP-2 not later than Spring, 2009. - Ongoing. CIP II final evaluation will be provided in Spring, 2009.	BTC/BP	High
		The 'service group' in CARE's Tskruti agricultural program complained that they were being competitively disadvantaged relative to the 'producer group'.	k. For the agricultural program in Tskruti, CARE to review business plans with the participating groups and to develop some principles to prevent 'producer' and 'service' groups working at cross purposes. - *Completed. CARE worked with the groups*	BTC/BP	Medium
		CIP II delivers livelihood improvement programs that need to be supported & reinforced for an extended period to become sustainable. Premature termination could result in unmet expectations & adverse reaction towards the project.	l. BTC/BP Co. to commence planning for extended funding of the CIP to ensure that current programs are made sustainable and so that a considered exit strategy can be put in place. - *Completed. In November 2008 an approval was received for the extension of funding for CIP. CIP final valuation to provide recommendations on the strategy going forward.*	BTC/BP	High

TURKEY

Issue	Project Principles	Performance	Recommendations	By	Priority
LAND ACQUISITION, LIVELIHOOD, REINSTATEMENT					
Outstanding compensation	Compensation to be paid prior to land being entered into for construction.	The variation in the total number of parcels, due to technical parcel subdivisions, makes it difficult to monitor the number of outstanding compensation cases, but this number is still high. It is necessary to monitor it in the near future against a stable total number of plots to make sure that it is decreasing at a reasonable pace.	a. BTC Co. and Botaş/DSA to monitor the number of outstanding compensation cases against a stable total number of parcels and to provide evidence that the number of such is under control and decreasing BTC comment: Completed Monthly reports are provided by Botaş with regard to court cases. BTC lawyers are at site together with Botaş staff to transfer the land rights to BTC. The process is closely monitored by BTC Co.	BTC Co. and Botaş/DSA	High
Zilyet land community liaison	Potential adverse community impacts to be managed.	Zilyet land misidentification may have exacerbated or created residual tensions within the communities.	b. BIL to ensure that during the early years of Operations, Zilyet villages are carefully observed so that potential tensions within the villages can be managed. BTC comment: SHOULD BE REMOVED Those concerns raised during the SRAP visit was to do with the general cadastral survey which was conducted in the whole province as part of the annual plans of General Directorate of Cadastral Office and it has nothing to do with BTC 's cadastral surveys.	BTC Co. and Botaş/DSA	Medium
Second crop compensation, community liaison	Compensation to be paid timely	Compensation for the second crop has been agreed upon by Botaş but was not paid.	c. Land owners/ users whose names and second crop areas were assessed by BTC Co. and Botaş/DSA should be paid second crop compensation, unless third party investigation by BNB gives clear, reasoned alternative recommendations. BTC Comment: CLOSED Botaş//DSA's position was submitted to SRAP and Lenders as part of financial closure process.	BTC Co. and BIL	High

Issue	Project Principles	Performance	Recommendations	By	Priority
Gölovasi fishermen and other communities around CMT	Livelihood restoration of communities affected by project.	Communities around the CMT have high expectations of the project.	d. BTC Co. to carry out a rigorous analysis of the current situation with the communities around the CMT including Gölovasi fishermen (incorporating stakeholder dynamics assessment of power and influence inter-play both within the fishing community and outside) and develop a strategy for a way forward. BTC Comments: CLOSED BTC revisited its investment strategy in the region. In 2008 several projects have been implemented with the active participation of the fishermen which had a positive impact in building the relationships with the fishermen community. See Section 8 for further details.	BTC Co., Botaş and Botaş/DSA	High
Reinstatement.	Land to be reinstated to original condition.	Reinstatement successfully carried out in most cases, remaining issues in a limited number of areas.	e. BTC Co. to ensure that reinstatement related issues are reflected adequately in the grievance mechanism BTC Comments: CLOSED BTC Co. and BIL (social and reinstatement experts) visited all 300 villages along the p/l route in order to identify the remaining reinstatement related issues as well as open items remaining from construction phase. All of these complaints are registered in BIL's tracker. An action plan is developed for closing the current reinstatement issues. BTC Co will hire a company in Spring 2009 to close these items.	Botaş	High
Landuse restrictions	Project to maintain community awareness of landuse restrictions.	Good knowledge of landuse restrictions by current land users. No provision for formal transfer of knowledge of land use restrictions to potential future land users.	f. BIL to develop a formal mechanism for transfer of information to new land users on land use restrictions which would incorporate written information to be passed on to the new land user. BTC Comments: CLOSED During the community meetings held in every village in 2008, BIL distributed revised pamphlets to all land user and owners. BTC Co. distributed village information boards to all villages along the p/l; land use restrictions, emergency phone numbers, PCRE contact details and CIP related information are displayed on the boards which will be permanent tool for communication.	BIL	Low

Issue	Project Principles	Performance	Recommendations	By	Priority
COMMUNITY LIAISON AND MANAGEMENT OF GRIEVANCES					
Community liaison	Project organizations to maintain permanent and widely known avenues of contact for villagers to lodge grievances and generally contact the Project in respect of pipeline related issues	BIL is not sufficiently well known and generally people in affected communities have insufficient information on current avenues available to contact the Project. The toll free telephone number mentioned on pipeline markers does not work.	g. BIL to resolve current resource constraints (personnel and vehicle) in a perspective of increasing field presence and visibility. BTC Comments: Completed There are currently 12 PCREs covering the pipeline (including IPT1). Except PT3 they have enough back to back personnel. Different from 2007, BIL PCREs have access to their own vehicles in the field. h. BIL to complete introductory and follow-up meetings in all villages ASAP. BTC Comments: Completed In 2008 all villages visited and PCREs introduced themselves and their contact details to each affected community. i. BIL to review mechanisms through which they can be reached by the community (including through telephone lines) and ensure that these are effective and functioning. BTC Comments: Completed Telephone numbers of BIL PCREs were provided through operation pamphlet and through the posters posted on the village information boards.	BIL, Botaş, Botaş/DSA and BTC Co. BIL BTC Co. and BNB	High
Grievance management	People to be able to lodge grievances at all time, and Project to ensure timely response to all grievances	Disconnect between grievances logged in Project records and those actually observed in the field during village interviews. People generally not well aware of avenues to lodge grievances. Inconsistent management of grievances handed over from one Project party to another.	j. BIL to refresh villagers' awareness about avenues available to lodge grievances. BTC Comments: CLOSED BTC Co. and BIL (social and reinstatement experts) visited all 300 villages along the p/l route and Together with BIL , BTC Co. distributed village information boards to all villages along the p/l; land use restrictions, emergency phone numbers, PCRE contact details and CIP related information are displayed on the boards. k. BTC Co. with BNB as independent monitors to ensure the quality assurance of the grievance management system. BTC Comments: ONGOING BNB continued to monitor effective close out of complaints in 2008.	BTC Co. and Botaş/DSA BTC Co., BIL and Botaş/ DSA	High High

Issue	Project Principles	Performance	Recommendations	By	Priority
LOCAL EMPLOYMENT AND PROCUREMENT					
Local employment creation	Local employment to reflect employment KPI	Project achievement high for unskilled workers, but limited for semi-skilled workers.	l. BIL to place somewhere visible within the villages, the number of people employed in each village. BTC Comments: ONGOING Due to the limited number of employment required from each village BIL informed the villages verbally. No additional written information provided yet. m. BIL to train unskilled employees to take up semi-skilled jobs. BTC Comments: ONGOING BTC CO, together with the Turkish National Employment Agency will initiate a skill development project around Ceyhan terminal. Anybody interested in the project can benefit from this programme which will include vocational training as well as career consultancy. BIL has been informed about the project and the information will be disseminated to the workers of BIL through their HR Department.	BIL and BTC Co.	Medium
Local Procurement	Project to create opportunities for local procurement	Currently procurement from project affected villages is low.	n. BTC Co. and BIL to explore and identify supply chain opportunities for local firms. BTC Comments: ON-GOING BTC Co together with SME Development Institute of Turkey (KOSGEB) will initiate a SME development project in Adana-Osmaniye region in early 2009. Supply chain opportunities for local firms will be analysed and Technical Assistance will be provided to local companies to take part of the supply chain in the region. BIL contractors are also included in this programme.In addition BTC Co already initiated a project with Credit Guarantee Fund and Agricultural Bank of Turkey which aim to provide guarantee for local firms to access to the finance. All vendors of BIL and other firms which can be a potential vendor can benefit from this project. The information was disseminated to all companies through BIL's procurement department as well as through Chambers of Trade and Industry, Agricultural bank and CGF. Press meetings organised in 7 provinces along the BTC route and additional three public meetings will be organised in the southern section in 2009. o. BTC Co. and BIL to provide targeted support and capacity building to local firms to take up supply chain opportunities (BTC Co. already doing this to a certain extent but should increase efforts). BTC Comments: Ongoing	BIL and BTC Co.	Low

CROSS COUNTRY

Issue	Project Principles	Performance	Recommendation	By	Priority
LAND ACQUISITION					
Land hand back and restrictions of use	Land to be reinstated to original condition. Land use restrictions to be applied to the pipeline corridor to ensure integrity of pipeline and for public safety	All three countries have fully developed information material. Special care needs to be taken to ensure that all groups are fully informed.	a. BTC to update impact tables of the three respective RAPs to reflect final actual impacts on land and population resulting from project construction, using a format similar to that below in each of the three countries (carried over from previous review). - *Completed*	BTC	Medium
			b. BTC to update tabulations of project affected landowners and users experiencing permanent loss of land and for each affected owner/user, to define the extent of those losses relative to his or her total landholding. - *Ongoing*	BTC	
			c. SRAP Panel to provide a cross country framework for livelihood restoration surveys to assure a level of consistency in approach.	SRAP Panel	
			d. BTC to undertake a survey of households affected by permanent loss of land in 2008 to verify whether or not each household has been able to restore its income. In the case of Georgia, a strategy should at least be in place by 2008 for doing this. - *Ongoing*	BTC/BP	
			e. BTC to consider additional livelihood restoration measures for permanent land losers if the survey above establishes that livelihoods are not adequately restored. - *Ongoing*	BTC/BP	
			f. In all three countries, BTC to develop action plans to address/manage situations in which the landowner refuses to sign the land hand-back agreements. - *Completed*	BTC BTC	
LIVELIHOOD RESTORATION					
The need to restore lively-hoods of project affected people.	To restore livelihoods of project affected households to at least pre-project levels.	Quality of reinstatement can only be fully assessed after the first harvest post-reinstatement.	g. Country livelihood restoration assessments to pay particular attention to the situation of vulnerable and marginalized groups. - *Completed*	BTC/BP	High
SECURITY OF PIPELINE					
Security	Reputation risk management	Complaints received in Azerbaijan and Georgia regarding interaction between community and security forces.	h. Continued vigilance is required by BTC Co./BP in Georgia and Azerbaijan to ensure that that the important role of the security of the pipeline is carried out in a manner which is appropriate and not antagonistic towards the communities.	BTC Co., BP, Botaş, BIL	Medium

APPENDIX 5: CLOSE OUT STATUS OF ACTIONS RELATED TO ACTIONS AND RECOMMENDATIONS RAISED THROUGH POLARIS MONITORING

Appendix 5 contains a summary of Polaris audit findings in relation to Oil Spill Readiness. Polaris Applied Sciences Inc undertook the audit on behalf of the Lenders in June 2007. Table 5.1 below lists the findings in Azerbaijan and Georgia (audited together), and in Turkey and provides a status against the findings as at end 2008.

The Polaris audit identified two levels of findings, issues which 'require attention' (RQ) in order to ensure the ESAP and/or HGA requirements are met and issues which should be implemented to ensure that international best practice (BP) is maintained or sustained.

Items that have been closed do not appear in subsequent reports. This table shows all actions from previous review that were shown as open in the 2007 annual report.

Table A5.1: Recommendations of the May/June 2007 Review for Azerbaijan/Georgia

Ref Number	Recommendation for Improvement	Status end Dec 2008
RQ – B	Review and completion of Containment Manual revisions.	Ongoing
RQ – C	Documentation of notifications for spills and exercises.	Ongoing
RQ – D	Development and implementation of approved strategy to replace MAN trucks.	Ongoing 7 MAN trucks are already ordered. In particular: 3 units to be delivered in 2009 and 4 units next year.
RQ – F	Approved completion of OSR Base for Zone 3 (PSG-1).	Ongoing
RQ – H	Implementation of the Wildlife Response Plan and rehabilitation resources and capabilities.	COMPLETED in Azerbaijan On-going in Georgia.
RQ – I	Assurances that steps and procedures are in place to ensure continued OSR readiness for personnel and equipment.	COMPLETED
RQ - J	Completion of revised plans for Tsalka and Borjomi: completion schedule for secondary containment structures and drain-down system.	COMPLETED
BP – A	Additional and continued IMT training for BTC managers, including greater participation of IMT support in field, with particular emphasis on Community Liaison Officers (CLOs) and Environmental Unit staff and IMT on-site participation with OSR contractors.	COMPLETED
BP – D	Continued field training from GIS with OSR contractors (Briggs and SESI) and coordination with GIS for development of OSR maps.	COMPLETED

Ref Number	Recommendation for Improvement	Status end Dec 2008
BP – E	Inclusion of deployment photos in Containment Manual and high-flow tactics for Georgia.	COMPLETED
BP – F	Implement approved schedule and plan for adoption of Georgian OSR strategies workshop for winter operations.	COMPLETED Helicopter contract with CHC is in place and valid from January 1st 09 through December 31st, 2009.
BP – G	Development of in-country waste disposal plan and implementation schedule.	COMPLETED

Table A4.2: Recommendations of the May/June 2007 Review for Turkey

Ref Number	Recommendation for Improvement	Status end Dec 2008
RQ - 1	Development and implementation of an annual completion schedule for review and updates of Oil Spill Response Plans.	OPEN: An annual completion schedule has been developed. BIL to take action. Plan update will be initiated in 2009
RQ - 2	Development and implementation of update for revision and update of Containment Manuals.	COMPLETED: Reviewed the 320 containment sites in 2007 and produced a new manual for 2008.
RQ - 3	Require Wildlife Response Procedure, training and rehabilitation resource schedule.	OPEN: Training scheduled for 2008. EIP programme established to develop a Wildlife Rehabilitation Centre in the vicinity of CMT. The centre is scheduled to be operative by September 2008. Wildlife Response Procedure will be developed post training.
RQ - 9	Plan and schedule to comply with new Turkish regulation relating to Risk Assessment of Onshore Facilities.	COMPLETED: The plan and schedule has been submitted to government
BP2	Develop a vehicle replacement plan for MAN trucks or that leased vehicles can be ready within timeframe required by OSRP.	OPEN: Consideration of replacement of trucks on-going. Technical specification of truck will be determined by BIL/BTC Team. To be procured.
BP3	Training in and update of Oil Spill Trajectory Model.	COMPLETED: Training was taken by BIL Team. Aerial surveillance is planned to use in case of major spill.
BP4	Completion of Communications Study with a timeline for implementation of recommended actions.	Ongoing

CASE STUDY 1

WASTE MANAGEMENT IMPROVEMENTS IN AZERBAIJAN

Azerbaijan Export Pipelines Environmental Team has developed and is implementing a Waste Management Efficiency Enhancement Programme (WMEEP). This programme covers a wide range of issues that are focused on the following goals:

- ✓ Optimisation of waste management practices;
- ✓ Reduction of environmental impacts associated with wastes; and
- ✓ Reduction of costs associated with waste management.

The programme covered the following areas:

- ✓ Establishment of waste collection points and use of dedicated waste containers for specific waste stream with clear and colour-coded labels;
- ✓ Design the lay-out for on-site placement of waste containers and provision of instructions on waste disposal;
- ✓ Use of waste compactor for compaction of waste paper and plastic bottles;
- ✓ Measurement exercises to report waste quantities in kilograms instead of cubic meters;
- ✓ Workshops and awareness training sessions with operations personnel on the waste management processes and BTC Waste Management Plan and Procedure.

In addition, a schedule was developed for waste consignment requests in order to ensure a consistent approach in responding to requests for waste transportation from remote locations along the pipeline.

Rigorous data collection on waste streams, quantities etc. during two years of steady operations ensured that a good baseline was available on the types of wastes and processes that generate waste. The data made it possible to target key areas in order to reduce volumes of generated waste.

Reduction of *General Waste* was notable, and dropping from 62 tonnes in 2006 to 39 tonnes in 2007 and 33 tonnes in 2008. These reductions were achieved by establishing glass bottles recycling facilities, segregating and compacting plastic bottles, and replacing plastic cups. The next stage of the programme will evaluate food waste maceration or composting options.

Volumes of *Oily Waste* are being reduced by upgrading on-site Oil-Water Separators to process oily water, with subsequent re-injection of oil into the line and discharge of water through reed beds. Moreover, used oil and diesel is also being re-injected into the pipeline. The next stage will involve the introduction of ECOrags, a concept that is expected to reduce oily rags waste generation up to 8 times.

Sewage Waste volumes are being achieved through modifications to on-site sewage treatment systems. BTC has built three new sewage treatment units as well as reed beds to ensure complaint treatment of wastewater. Programmes designed to increase water use efficiencies are also being implemented.

The programme has achieved the following significant savings:

- ✓ Waste skips rental – 484,200 USD (10 years saving);
- ✓ Sewage waste transportation – 220,000 USD (annually);
- ✓ Sewage waste disposal – 50,000 USD (annually);
- ✓ Oily water transportation and disposal – 18,000 USD (annually);
- ✓ Used oil disposal and transportation – 15,000 USD (annually);
- ✓ Non-hazardous domestic waste minimisation – 9,000 USD (annually).

CASE STUDY 2

GEORGIAN CULTURE PROMOTED BY NON-GEORGIANS

"…I have struggled with these kids to teach them using my gestures, motion, and even the couple of words that I knew in Azeri – although they start to learn Georgian traditions and culture by now" – noted an exhausted Georgian folk dance teacher when he finally finished the class and prepared himself to travel back to Tbilisi. Mr. Merab Tsiklauri, a very qualified choreographer, has spent years raising generations of Georgian dancers and always enjoyed the hours spent working on one small element or curve of a particular dance.

"I was very much asked by the school master to come and lead the classes as the school was experiencing significant upgrade of common facilities and this would open a great opportunity for kids to be truly part of the country they live in" – the choreographer continued his passionate talk.

To get a snapshot of years that this educational facility has gone through, it's worth noting that the school was built back in 1986 and since then no significant investment was ever made. The contingent of the school was mainly consisting of the representative of ethnic minorities and had all subjects taught in Russian (as means of major communication with minorities). Even during those harsh times, the school management tried to keep up with the development pace of the country and within the limited resources and no distinct support from the central system still struggled to send small number of teachers to career qualification courses. For the last 10 years, Murad Maisuradze as a principal was leading the school with passion, energy and dedication. He proved to be one of those school directors, who received high scores during the national competition of school masters and was presented the choice of which school would he appreciate working for. Of course, the immediate answer that was heard from him was "the school – where my heart belongs".

With appearance of Murad at the school management level, Georgian language sector as well modern teaching methods were introduced, therefore attracting more Georgian kids to share the classrooms and other premises of the building. Although the 90% of the school students is non-Georgian (Azeri), the adaptability and availability of space for expansion is attracting the nearby villages and settlements to bring their kids to this particular school.

"Involvement of kids in various activities such as dances, literature and other extracurricular events brings sense of unity, cohesion and integrates diversity into everyday life of the school" – comments Maggie Tabatadze, youth and education mobilizer of CIP. "I have never seen anyone who is not even Georgian, not being inspired by the Georgian folk and culture and wishing to perform at best!" – continued Maggie while leaving the CIP rehabilitated assembly hall after the concert dedicated to "Georgian Language Day".

The mentioned assembly hall, which is open and accessible to everyone even beyond school activities (such as local municipality is using the hall for regional level events, some organizations have rented the hall for trainings, etc). At a total cost of GEL 29,404 the school was able to arrange neatly repaired large hall, the stage, 2 lockers, 1 music room, chairs, table and audio / visual equipment. The school inhabitants were so eager to receive the opportunity to arrange and perform and various concerts, competitions and other events that they managed to contribute up to 30% of the total cost. After the rehabilitation was finished, the School was able to submit individually prepared budget to the local municipality and advocate for additional funds to rehabilitate the entrance corridor to this assembly hall. The attempt was successful and resulted in additional GEL 5,000 allocated as per school request.

Nowadays, Azeri kids are actively engaged and using the hall, practicing dance lessons and enjoying wearing Georgian folk uniforms in addition to more eye-catching lessons in various subjects being rolled out with audio-visual equipment delivered by CIP.

"The pipeline benefits are way beyond the oil and gas…"

CASE STUDY 3

NEW APPROACH TO MANAGEMENT OF A WETLAND: FOR NATURE AND FOR PEOPLE, YUMURTALIK LAGOONS, TURKEY

Yumurtalik Lagoons, being one of the most important wetlands in Turkey, have a surface area of 16,700 ha and consist of lagoons, salt marshes, freshwater marshes, wet meadows, dunes and an Aleppo Pine forest. In addition to being an Important Bird Area, the sand dunes within the area constitute one of the 17 important breeding areas in Turkey for sea turtles. Yumurtalik Lagoons are located close to the end point of the pipeline. The wider region has been declared an energy zone, therefore further industrial development may affect the lagoons.

In 2005, BTC Environmental Investment Programme in Turkey, as a result of consultations with various stakeholders, included Yumurtalik in its investment programme and decided to award Bird Research Association (KAD) a grant of $ 450,000 for undertaking a management planning project with all its components.

The project focused on creating management tools that are available for conservation and for the rational use of the Lagoons, where the major problem was seen as the irrational use of the wetland resources through human interference. The root causes of these problems were defined as insufficient knowledge among the public on the functions and the values of wetlands, a lack of a management plan, and the lack of mechanisms that would enable all interested parties take part in decision and management processes.

The preparation of the Yumurtalik Lagoons Management Plan demonstrated a uniquely consultative process and was approved by the National Wetlands Commission in March, 2008. A Local Wetland Commission was also established which has a legal status. The project team also focused on establishing appropriate and sustainable management structures and conditions necessary for the effective implementation of the management plan.

The administrative infrastructure is now fully functional and has been receiving support from top officials and technical staff at the local level. Finally, the conservation status of the site changed from “nature conservation area” to “national park” in December, 2008. Upon this change, local villagers will be less constrained in land usage and will be allowed to legally carry out agricultural activities in areas defined through the wetland management plan.

One of the most important achievements of the project has been its success in leveraging funds from local resources. Through leadership of the Governor, KAD and local institutions have secured about 25% of co-finance from Cukurova Development Agency and another $400,000 by Government.